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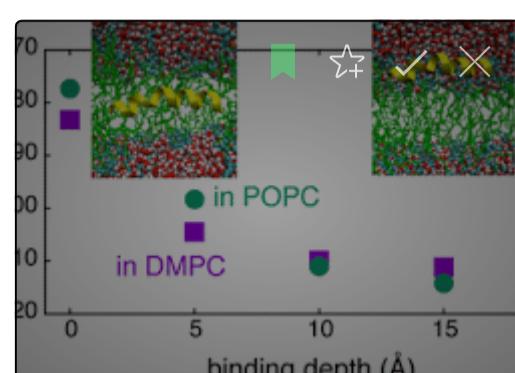
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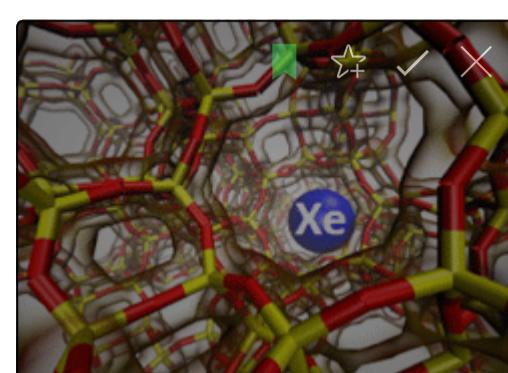


LATEST

**Free-Energy Analysis of Peptide Binding in Lipid Membrane Using All-Atom Molecular Dynamics Simulation Combined with Theory of Solutions**

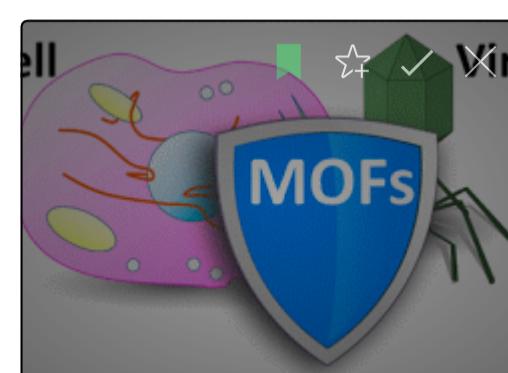
1 h JPCB / by Tomoko Mizuguchi and Nobuyuki Matubayasi / 1d

The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b08241

**Molecular Simulation Insights on Xe/Kr Separation in a Set of Nanoporous Crystalline Membranes**

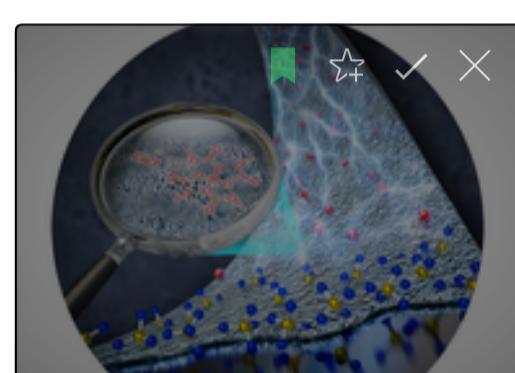
1 h ACS Applied Materials & Interfaces / by Ryther Anderson, Benjamin Schweitzer, Ting Wu, Moises A. Carreon and Diego A. Gómez-Gualdrón / 2d

ACS Applied Materials & Interfaces DOI: 10.1021/acsmi.7b14791

**Metal–Organic Frameworks for Cell and Virus Biology: A Perspective**

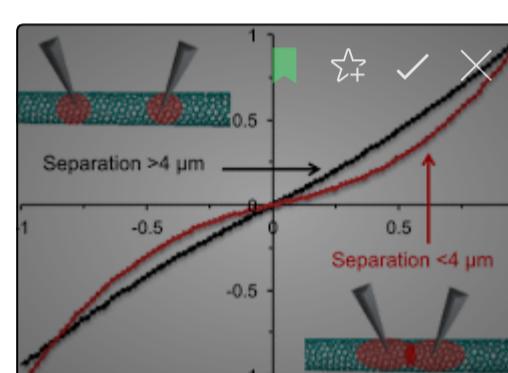
2 h ACS Nano / by Raffaele Riccò, Weibin Liang, Shaobo Li, Jeremiah J. Gassensmith, Frank Caruso, Christian Doonan and Paolo Falcaro / 3d

ACS Nano DOI: 10.1021/acsnano.7b08056

**Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries**

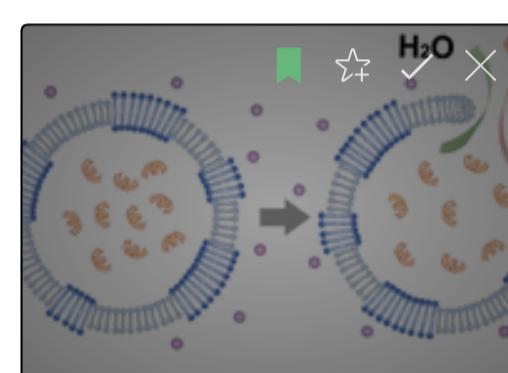
1 h Angewandte Chemie International Edition / by Qing Zhao, Zhengyuan Tu, Shuya Wei, Kaihang Zhang, Snehashis Choudhury, Xiaotun Liu, Lynden A. Archer / 6d

The solid electrolyte interphase (SEI) on metallic electrodes must be elastic and able to reversibly flex and expand to

**Spatial and Contamination-Dependent Electrical Properties of Carbon Nanotubes**

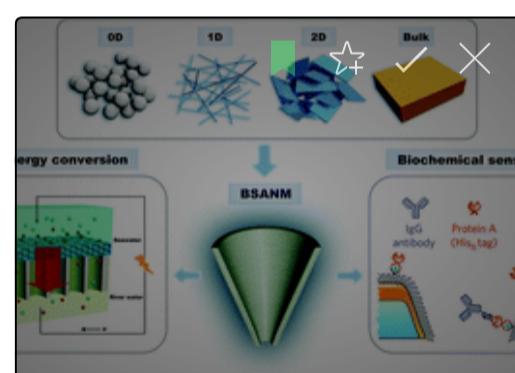
1 h Nano Letters / by Chris J. Barnett, Cathren E. Gowenlock, Kathryn Welsby, Alvin Orbaek White and Andrew R. Barron / 6d

Nano Letters DOI: 10.1021/acs.nanolett.7b03390

**Pulsatile Gating of Giant Vesicles Containing Macromolecular Crowding Agents Induced by Colligative Nonideality**

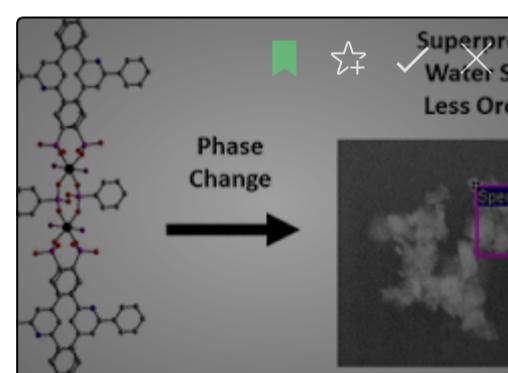
1 h JACS / by Wan-Chih Su, Douglas L. Gettel, Morgan Chabanon, Padmini Rangamani and Atul N. Parikh / 6d

Journal of the American Chemical Society DOI: 10.1021/jacs.7b10192

**Bioinspired smart asymmetric nanochannel membranes**

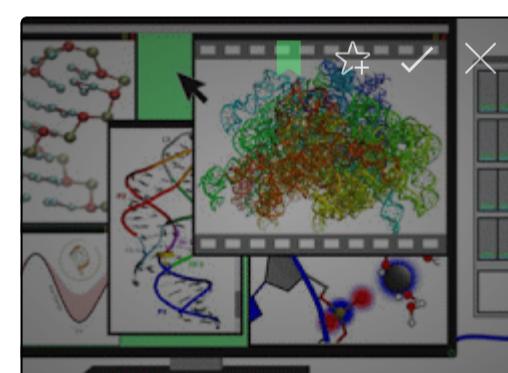
1 h Chem. Soc. Rev. / by Zhen Zhang / 7d

Chem. Soc. Rev., 2018, Advance Article DOI: 10.1039/C7CS00688H, Review Article Zhen Zhang, Liping Wen, Lei Jiang This review

**Superprotic Phase Change to a Robust Phosphonate Metal–Organic Framework**

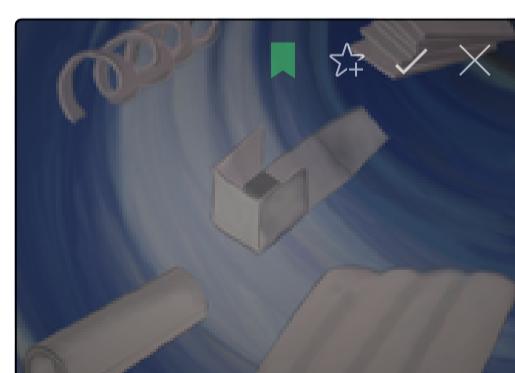
1 h Chemistry of Materials / by Zohreh Hassanzadeh Fard, Norman E. Wong, Christos D. Malliakas, Padmini Ramaswamy, Jared M. Taylor, Kazuya Otsubo and George K. H. Shimizu / 7d

Chemistry of Materials DOI: 10.1021/acs.chemmate.7b04467

**RNA Structural Dynamics As Captured by Molecular Simulations: A Comprehensive Overview**

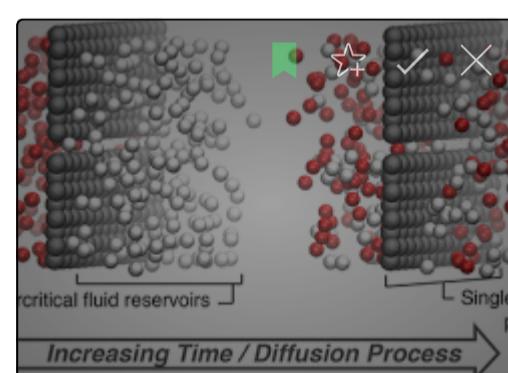
17 h Chemical Reviews / by Jiří Šponer, Giovanni Bussi, Miroslav Krepl, Pavel Banáš, Sandro Bottaro, Richard A. Cunha, Alejandro Gil-Ley, Giovanni Pinamonti, Simón Poblete, Petr Jurečka, Nils G. Walter and Michal Otyepka / 8d

Chemical Reviews DOI: 10.1021/acs.chemrev.7b00427

**Assembly and Self-Assembly of Nanomembrane Materials—From 2D to 3D**

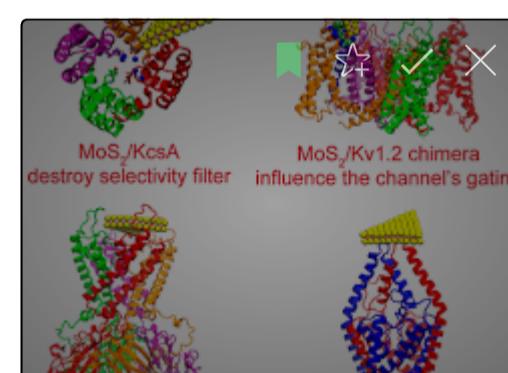
1 h Small / by Gaoshan Huang, Yongfeng Mei / 9d

Abstract Nanoscience and nanotechnology offer great opportunities and challenges in both fundamental research and practical

**Diffusion of Supercritical Fluids through Single-Layer Nanoporous Solids: Theory and Molecular Simulations**

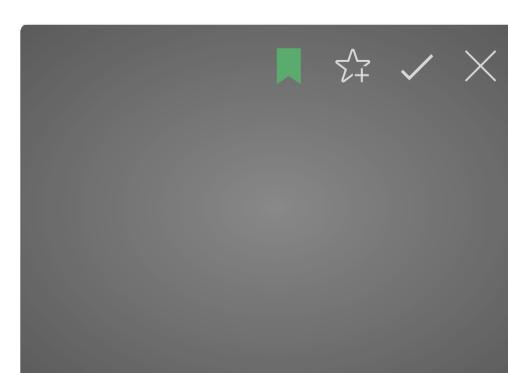
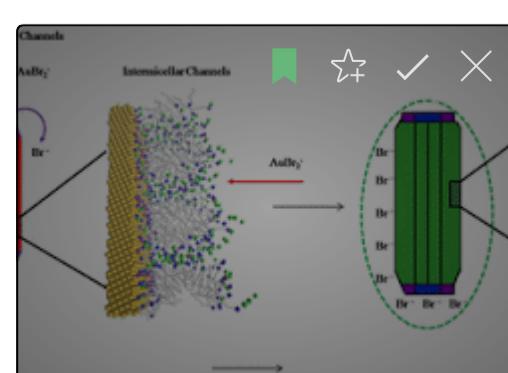
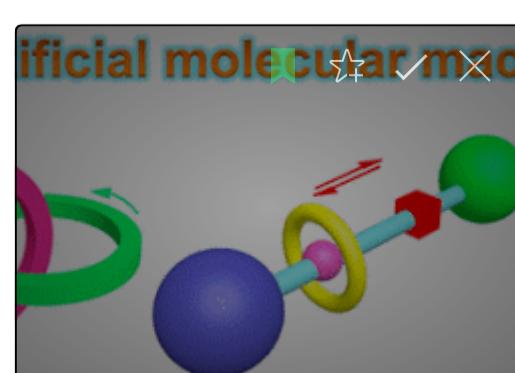
1 h Langmuir / by Fouad Oulebsir, Romain Vermorel and Guillaume Galliero / 13d

Langmuir DOI: 10.1021/acs.langmuir.7b03486

**Exploring the Nanotoxicology of MoS₂: A Study on the Interaction of MoS₂ Nanoflakes and K⁺ Channels**

1 h ACS Nano / by Zonglin Gu, Leigh D. Plant, Xuan-Yu Meng, Jose Manuel Perez-Aguilar, Zegao Wang, Mingdong Dong, Diomedes E. Logothetis and Ruhong Zhou / 14d

ACS Nano DOI: 10.1021/acsnano.7b07871





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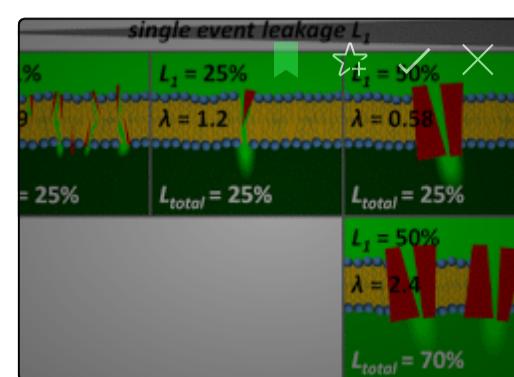
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Yung, Zijian Zhou, Zhengwei Mao and
Xiaoyuan Chen / 14d
ACS Nano DOI: 10.1021/acsnano.7b07851

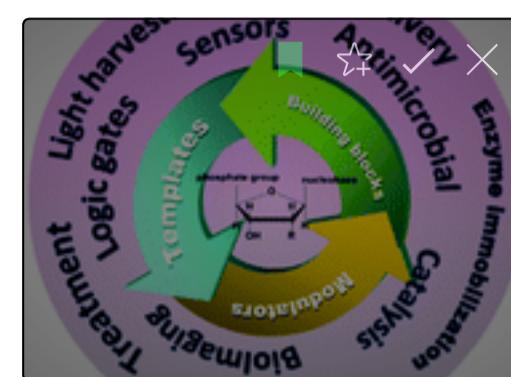
Molecular Dynamics Simulations
1 Langmuir / by José Adriano da Silva and
Mario R. Menechetti / 15d
Langmuir DOI:
10.1021/acs.langmuir.7b03703

surfactant [Engineering]
1 PNAS / by Amit Kumar Sachan, Joseph A.
Zasadzinski / 16d
The morphology of surfactant monolayers is
typically studied on the planar surface of a
Langmuir trough, even though most



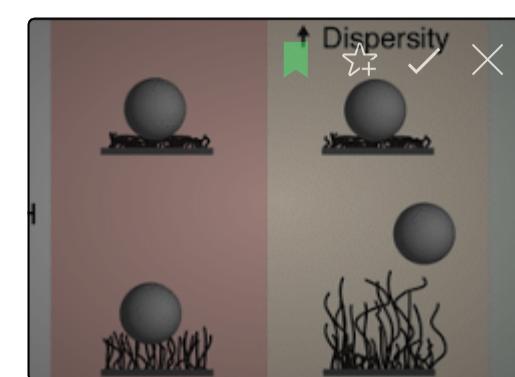
Biomembrane Permeabilization: Statistics of Individual Leakage Events Harmonize the Interpretation of Vesicle Leakage

1 ACS Nano / by Stefan Braun, Šárka Pokorná, Radek Šachl, Martin Hof, Heiko Heerklotz and Maria Hoernke / 20d
ACS Nano DOI: 10.1021/acsnano.7b08184



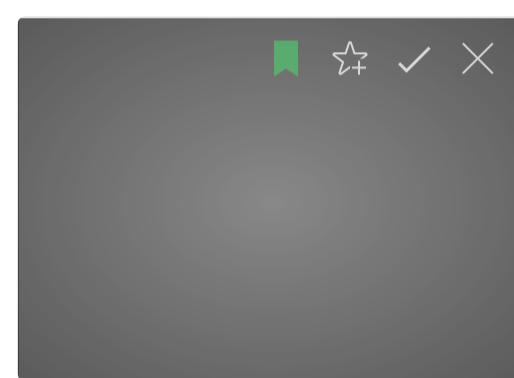
Nucleobases, nucleosides, and nucleotides: versatile biomolecules for generating functional nanomaterials

1 Chem. Soc. Rev. / by Fang Pu / 21d
Chem. Soc. Rev., 2018, Advance Article DOI : 10.1039/C7CS00673J, Review Article Fang Pu, Jinsong Ren, Xiaogang Qu This review



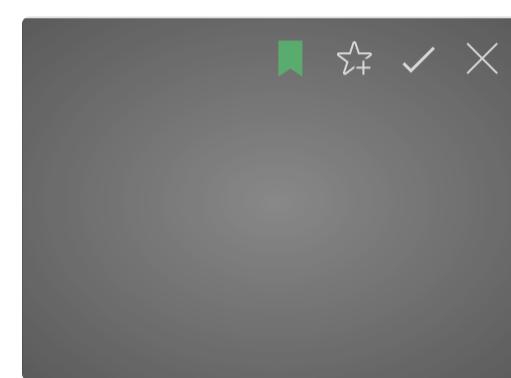
Tuning Bacterial Attachment and Detachment via the Thickness and Dispersity of a pH-Responsive Polymer Brush

1 ACS Applied Materials & Interfaces / by Vivek Yadav, Yuly Andrea Jaimes-Lizcano, Narendra K. Dewangan, Nayoung Park, Tzu-Han Li, Megan L. Robertson and Jacinta C. Conrad / 22d
ACS Applied Materials & Interfaces DOI: 10.1021/acsami.7b14416



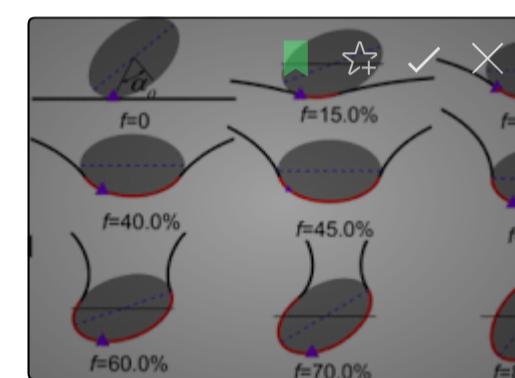
Relationship between transit time and mechanical properties of a cell through a stenosed microchannel

1 Soft Matter / by Ting Ye / 23d
Soft Matter, 2017, Accepted Manuscript DOI : 10.1039/C7SM01891F, Paper Ting Ye, Huixin Shi, Nhan Phan-Thien, Chwee Teck



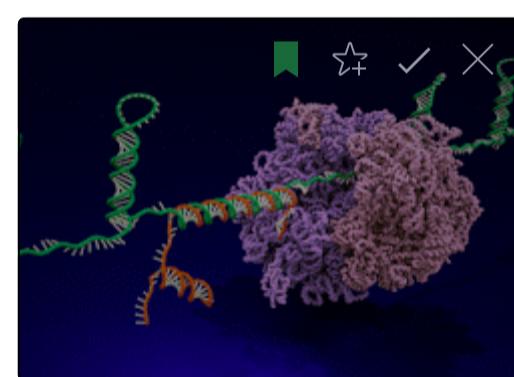
Composition Fluctuations in Lipid Bilayers

1 Biophysical Journal / 23d
Publication date: Source: Biophysical Journal, Volume 113, Issue 12 Author(s): Svetlana Baoukina, Dmitri Rozmanov, D.



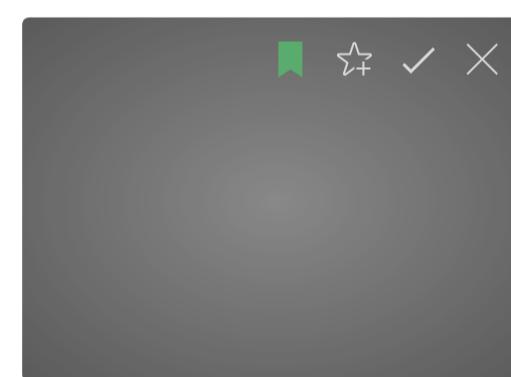
Receptor-Mediated Endocytosis of Nanoparticles: Roles of Shapes, Orientations, and Rotations of Nanoparticles

1 JPCB / by Huayuan Tang, Hongwu Zhang, Hongfei Ye and Yonggang Zheng / 23d
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b09619



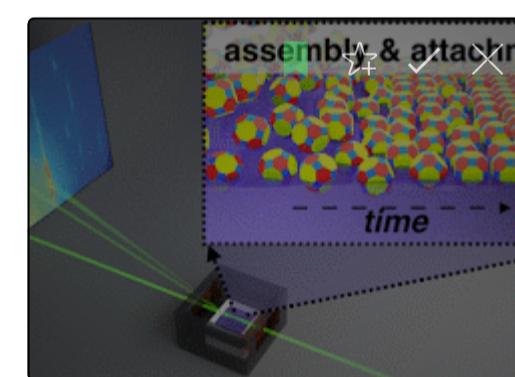
Ribocomputing: Cellular Logic Computation Using RNA Devices

1 Biochemistry / by Jongmin Kim, Peng Yin and Alexander A. Green / 23d
Biochemistry DOI: 10.1021/acs.biochem.7b01072



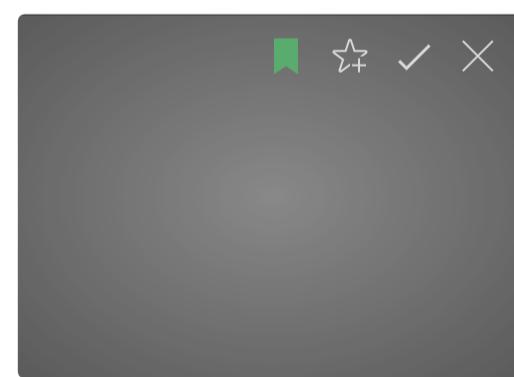
DNA nanoparticles for ophthalmic drug delivery

3 Biomaterials / 24d
Publication date: Source: Biomaterials, Volume 157 Author(s): Jan Willem de Vries, Sven Schnichels, José Hurst, Lisa Strudel,



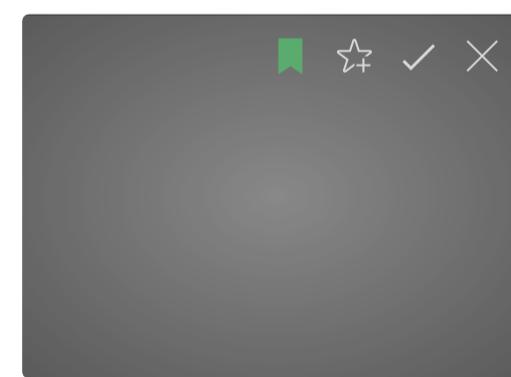
Entropic, Enthalpic, and Kinetic Aspects of Interfacial Nanocrystal Superlattice Assembly and Attachment

1 Chemistry of Materials / by Kevin Whitham, Detlef-M. Smilgies and Tobias Hanrath / 24d
Chemistry of Materials DOI: 10.1021/acs.chemmater.7b04223



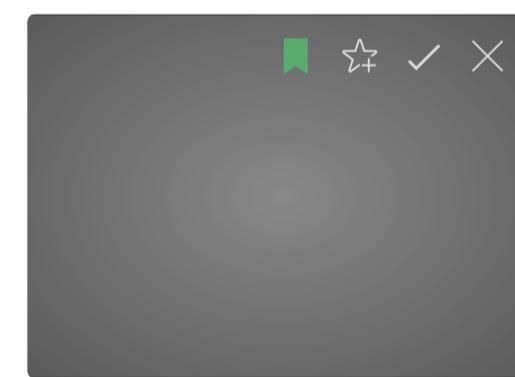
Modeling individual and pairs of adsorbed polymer-grafted nanoparticles: structure and entanglement

1 Soft Matter / by Jeffrey G. Ethier / 27d
Soft Matter, 2017, Accepted Manuscript DOI : 10.1039/C7SM02116J, Paper Jeffrey G. Ethier, Lisa Hall We analyze the canopy



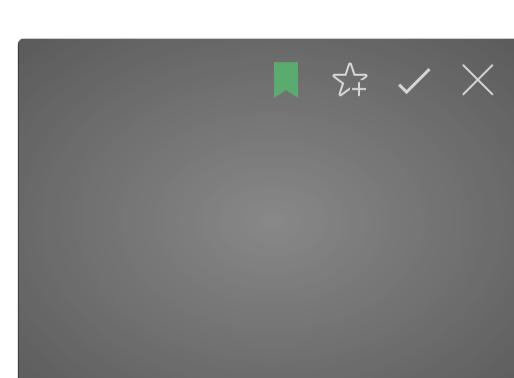
Single-stranded DNA and RNA origami

24 Science / by Han, D., Qi, X., Myhrvold, C., Wang, B., Dai, M., Jiang, S., Bates, M., Liu, Y., An, B., Zhang, F., Yan, H., Yin, P. / 28d
Self-folding of an information-carrying polymer into a defined structure is foundational to biology and offers attractive



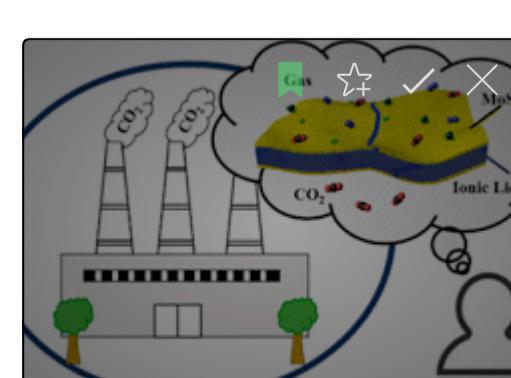
Dispersing small, bimetallic nanoparticles

1 Science / by Szuromi, P. / 28d

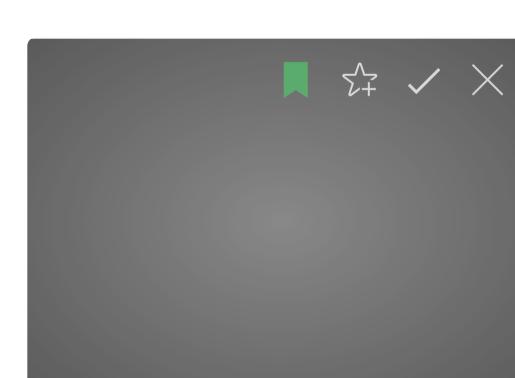


Less Lipid, More Commitment

1 Cell / 27d



Enhanced Gas Separation through Nanoconfined Ionic Liquid in Laminated MoS₂ Membrane

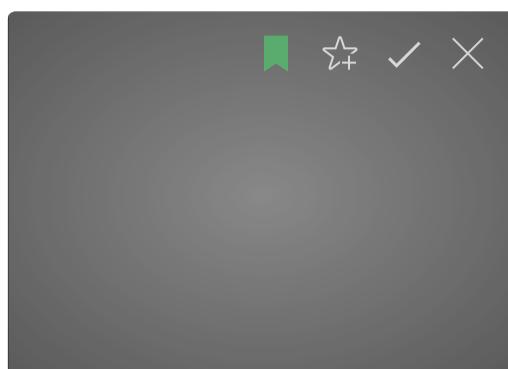


Understanding the mechanisms of amorphous creep through molecular simulation [Engineering]



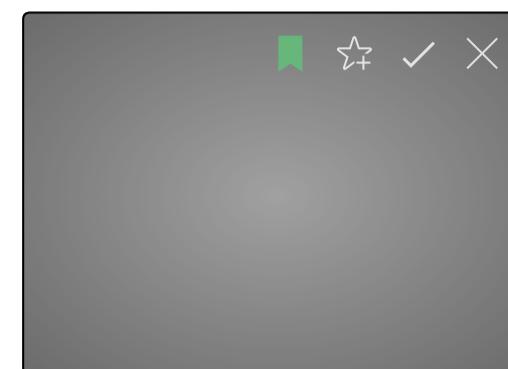
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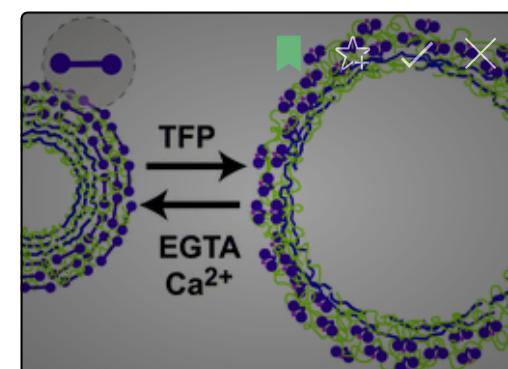
ACS Applied Materials & Interfaces DOI:
10.1021/acsami.7b15762glass thin films are simulated at
experimental timescales using a**Structure-based prediction of ligand-protein interactions on a genome-wide scale [Biophysics and Computational Biology]**

1 PNAS / by Howook Hwang, Fabian Dey, Donald Petrey, Barry Honig / 31d

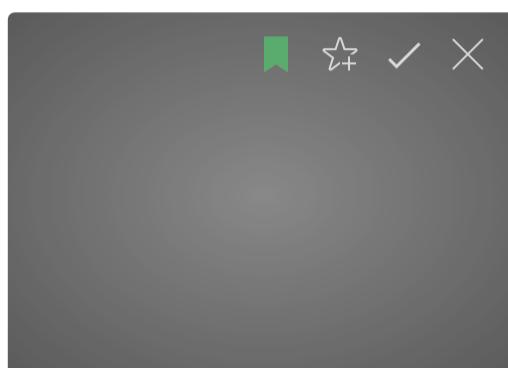
We report a template-based method, LT-scanner, which scans the human proteome using protein structural alignment to

**Self-Assembled Ligands Targeting TLR7: A Molecular Level Investigation**

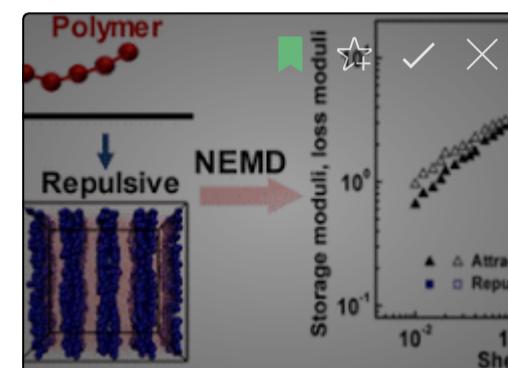
1 Langmuir / by Marco A. Deriu, Michela Cangiotti, Gianvito Grasso, Ginevra Licandro, Afsaneh Lavasanifar, Jack A. Tuszyński, Maria Francesca Ottaviani and Andrea Danani / 31d

Langmuir DOI:
10.1021/acs.langmuir.7b03168**Bioinspired dynamic microcapsules**

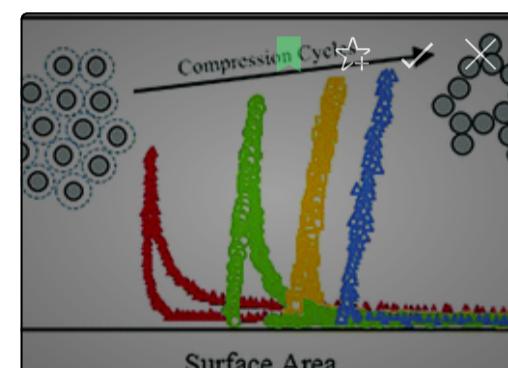
1 Soft Matter / by N. F. D. AlDala'een / 35d

Soft Matter, 2018, 14, 124-131 DOI:
10.1039/C7SM01682D, Paper N. F. D. AlDala'een, W. N. K. W. Mohamad, N. Alias,**Biology and physics rendezvous at the membrane**

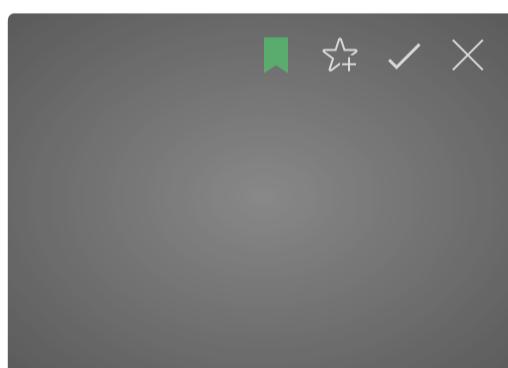
100+ Science / by Simunovic, M. / 35d

**Distinct Viscoelasticity of Nanoparticle-Tethering Polymers Revealed by Nonequilibrium Molecular Dynamics Simulations**

1 JPCC / by Pengxiang Xu, Jiaiping Lin and Liangshun Zhang / 35d

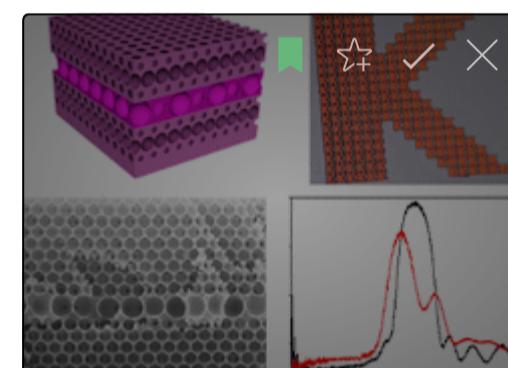
The Journal of Physical Chemistry C DOI:
10.1021/acs.jpcc.7b10455**Effect of surfactant tail length and ionic strength on the interfacial properties of nanoparticle-surfactant complexes**

1 Soft Matter / by Stephanie M. Kirby / 35d

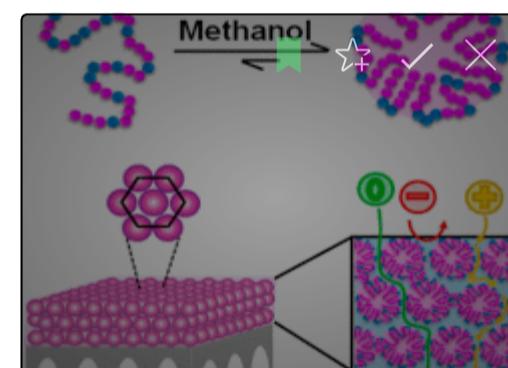
Soft Matter, 2018, 14, 112-123 DOI:
10.1039/C7SM01806A, Paper Stephanie M. Kirby, Shelley L. Anna, Lynn M. Walker**In Vivo Formation of Protein Corona on Gold Nanoparticles. The effect of Size and Shape**

1 Nanoscale / by Rafaela Garcia-Alvarez / 35d

Nanoscale, 2017, Accepted Manuscript DOI : 10.1039/C7NR08322J, Paper Rafaela Garcia-Alvarez, Marilena Hadjimeteiriou,

**Controlled Insertion of Planar Defect in Inverse Opals for Anticounterfeiting Applications**

1 ACS Applied Materials & Interfaces / by Yongjoon Heo, Su Yeon Lee, Ji-Won Kim, Tae Yoon Jeon and Shin-Hyun Kim / 35d

ACS Applied Materials & Interfaces DOI:
10.1021/acsami.7b13946**Selective Transport through Membranes with Charged Nanochannels Formed by Scalable Self-Assembly of Random Copolymer Micelles**

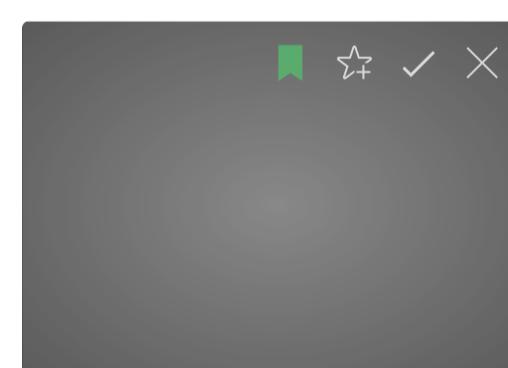
1 ACS Nano / by Ilin Sadeghi, Jacob Kronenberg and Ayse Asatekin / 37d

ACS Nano DOI: 10.1021/acsnano.7b07596

**A Decade of the Protein Corona**

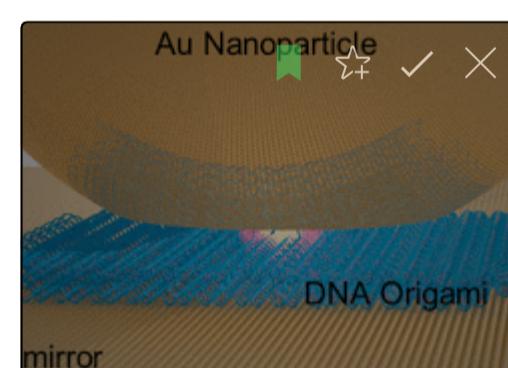
1 ACS Nano / by Pu Chun Ke, Sijie Lin, Wolfgang J. Parak, Thomas P. Davis and Frank Caruso / 37d

ACS Nano DOI: 10.1021/acsnano.7b08008

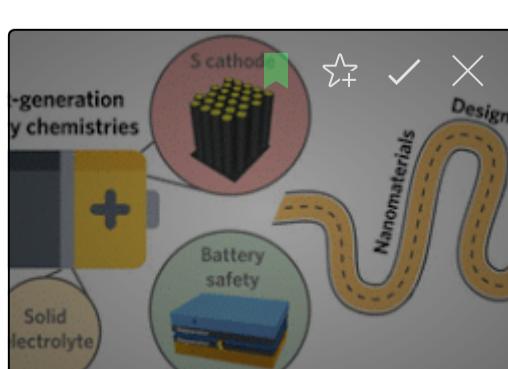
**Molecular detection by liquid gated Hall effect measurement of graphene**

1 Nanoscale / by Hualin Zhan / 37d

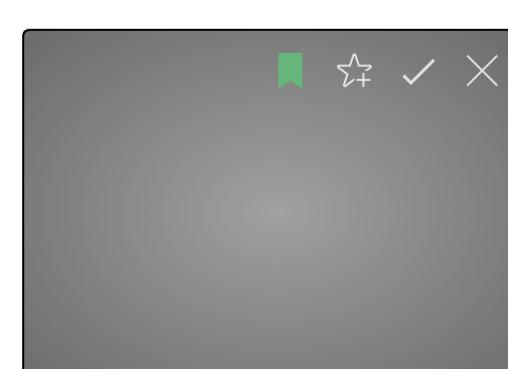
Nanoscale, 2017, Accepted Manuscript DOI : 10.1039/C7NR06330J, Communication Hualin Zhan, Jiri Cervenka, Steven Prawer,

**Mapping Nanoscale Hotspots with Single-Molecule Emitters Assembled into Plasmonic Nanocavities Using DNA Origami**

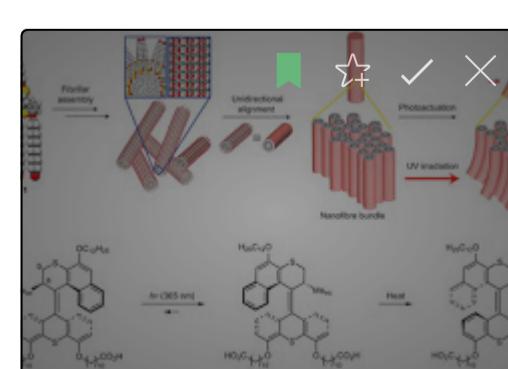
1 Nano Letters / by Rohit Chikkaraddy, V. A. Turek, Nuttawut Kongsuwan, Felix Benz, Cloudy Carnegie, Tim van de Goor, Bart de Nijs, Angela Demetriadou, Ortwin Hess, Ulrich F. Keyser and Jeremy J. Baumberg / 37d

Nano Letters DOI:
10.1021/acsnano.7b04283**Design of Complex Nanomaterials for Energy Storage: Past Success and Future Opportunity**

1 Accounts of Chemical Research / by Yayuan Liu, Guangmin Zhou, Kai Liu and Yi Cui / 37d

Accounts of Chemical Research DOI:
10.1021/acs.accounts.7b00450**HsDHODH Microdomain-Membrane Interactions Influenced by the Lipid Composition**

1 JPCB / by Eduardo F. Vicente, Indra D. Sahu, Edson Crusca, Luis G. M. Bassio, Claudia E. Munte, Antonio J. Costa-Filho, Gary A. Lorigan and Eduardo M. Cilli / 38d

**Artificial muscle-like function from hierarchical supramolecular assembly of photoresponsive molecular motors**

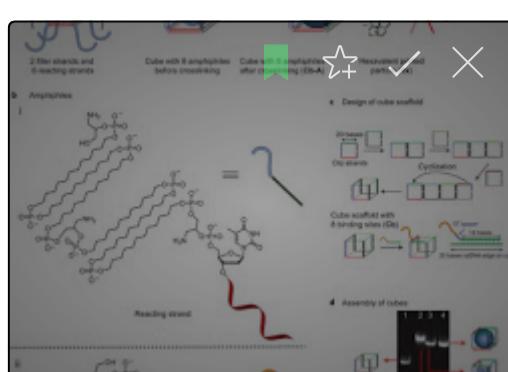
1 Nature Chemistry / by Jiawen Chen / 38d

Artificial muscle-like function from hierarchical supramolecular assembly of photoresponsive molecular motors Artificial



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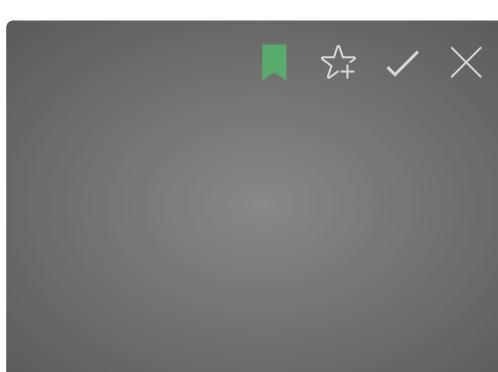
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DNA-imprinted polymer nanoparticles with monodispersity and prescribed DNA-strand patterns

300+ Nature Chemistry / by Tuan Trinh / 38d

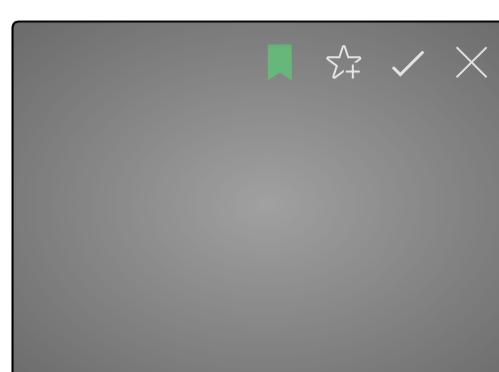
DNA-imprinted polymer nanoparticles with monodispersity and prescribed DNA-strand patterns DNA-imprinted polymer



Does soft really matter? Differentiation of induced pluripotent stem cells into mesenchymal stromal cells is not influenced by soft hydrogels

1 ♦ ScienceDirect Publication: Biomaterials / 41d

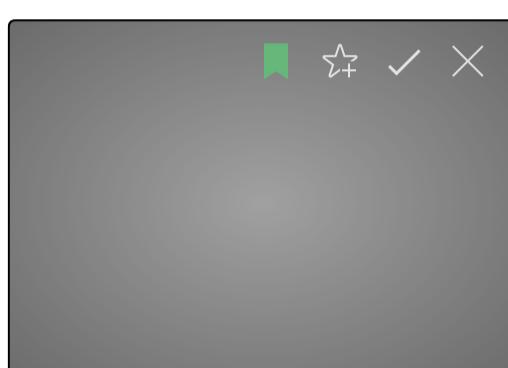
Publication date: Source: Biomaterials, Volume 156 Author(s): Roman Goetzke, Julia Franzen, Alina Ostrowska, Michael



Molecular Dynamics Simulation of Crystallization Cyclic Polymer Melts As Compared to Their Linear Counterparts

1 ♦ Macromolecules / by Hongyi Xiao, Chuanfu Luo, Dadong Yan and Jens-Uwe Sommer / 38d

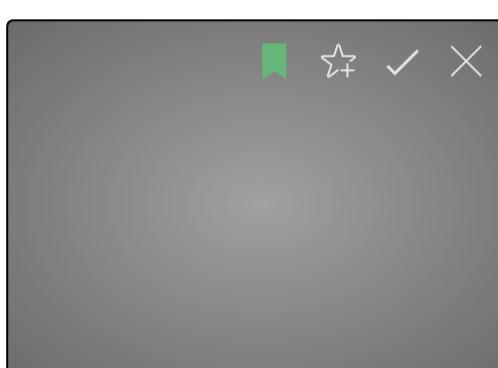
Macromolecules DOI: 10.1021/acs.macromol.7b01570



Lipid Pore-Filled Silica Thin-Film Membranes for Biomimetic Recovery of Dilute Carbohydrates

1 ♦ Langmuir / by Shanshan Zhou, Daniel M. Schlipf, Emma C. Guilfoil, Stephen E. Rankin and Barbara L. Knutson / 42d

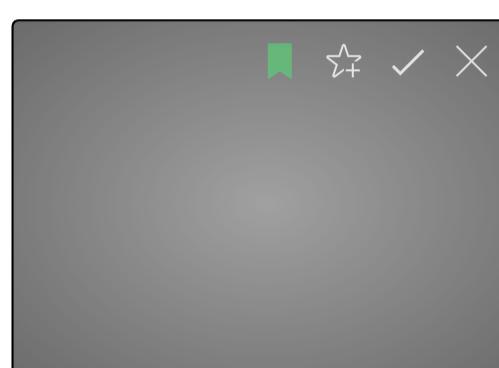
Langmuir DOI: 10.1021/acs.langmuir.7b03844



Parameterization of Palmitoylated Cysteine, Farnesylated Cysteine, Geranylgeranylated Cysteine, and Myristoylated Glycine for the Martini Force Field

1 ♦ JPCB / by Yoav Atsmon-Raz and D. Peter Tielemans / 41d

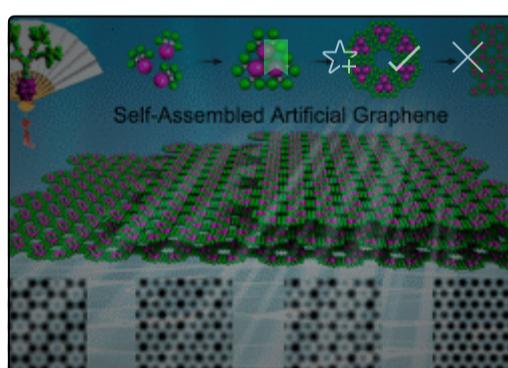
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b0175



HYDROPHOBE Challenge: A Joint Experimental and Computational Study on the Host–Guest Binding of Hydrocarbons to Cucurbiturils, Allowing Explicit Evaluation of Guest Hydration Free-Energy Contributions

1 ♦ JPCB / by Khaleel I. Assaf, Mara Florea, Jens Antony, Niel M. Henriksen, Jian Yin, Andreas Hansen, Zheng-wang Qu, Rebecca Sure, Dieter Klapstein, Michael K. Gilson, Stefan Grimme and Werner M. Nau / 41d

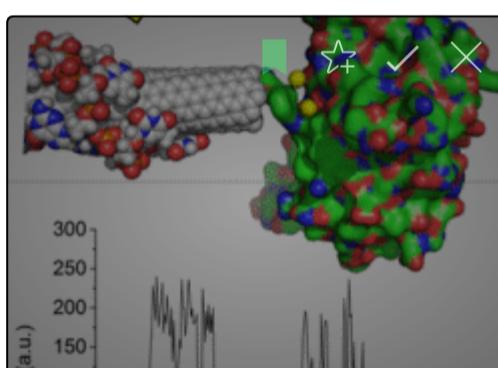
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b09175



Mesoscale Graphene-like Honeycomb Mono- and Multilayers Constructed via Self-Assembly of Coclusters

1 ♦ JACS / by Xue-Sen Hou, Guo-Long Zhu, Li-Jun Ren, Zi-Han Huang, Rui-Bin Zhang, Goran Ungar, Li-Tang Yan and Wei Wang / 38d

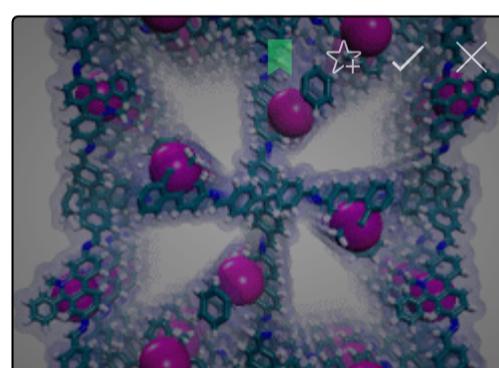
Journal of the American Chemical Society DOI: 10.1021/jacs.7b11324



Site-Specific One-to-One Click Coupling of Single Proteins to Individual Carbon Nanotubes: A Single-Molecule Approach

1 ♦ JACS / by Mark Freeley, Harley L. Worthy, Rochelle Ahmed, Ben Bowen, Daniel Watkins, J. Emry Macdonald, Ming Zheng, D. Dafydd Jones and Matteo Palma / 43d

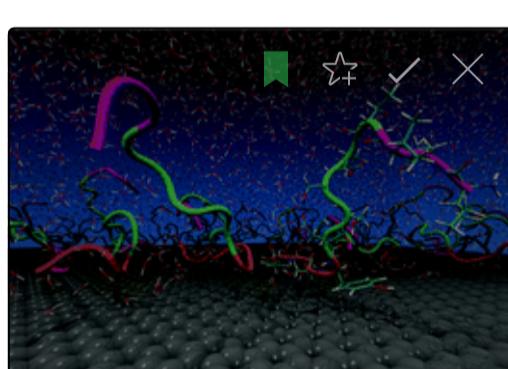
Journal of the American Chemical Society DOI: 10.1021/jacs.7b07362



Three-Dimensional Ionic Covalent Organic Frameworks for Rapid, Reversible, and Selective Ion Exchange

1 ♦ JACS / by Zonglong Li, Hui Li, Xinyu Guan, Junjie Tang, Yusran Yusran, Zhan Li, Ming Xue, Qianrong Fang, Yushan Yan, Valentin Valtchev and Shilun Qiu / 43d

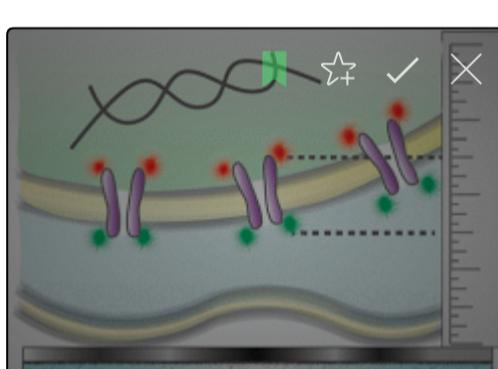
Journal of the American Chemical Society DOI: 10.1021/jacs.7b11283



Probing nano-patterned peptide self-organisation at the aqueous graphene interface

1 ♦ Nanoscale / by Zak E. Hughes / 45d

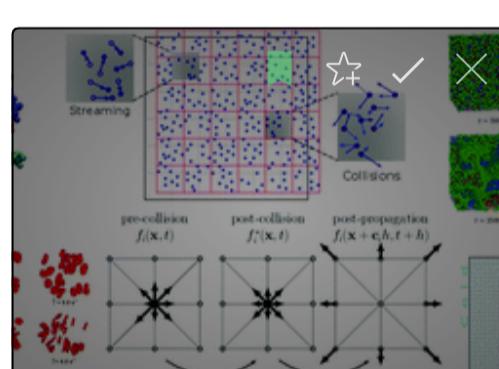
Nanoscale, 2017, Advance Article DOI: 10.1039/C7NR06441A, Paper Zak E. Hughes, Tiffany R. Walsh The peptide



Toward an Axial Nanoscale Ruler for Fluorescence Microscopy

1 ♦ ACS Nano / by Sabrina Simoncelli, Maria Makarova, William Wardley and Dylan M. Owen / 51d

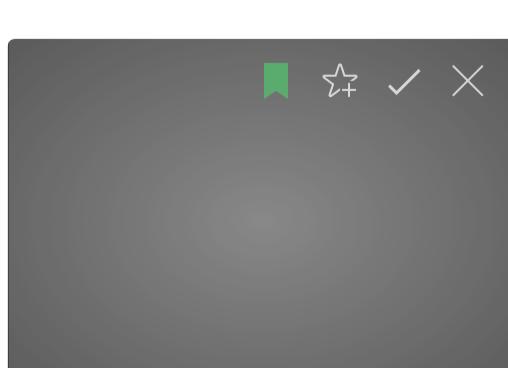
ACS Nano DOI: 10.1021/acsnano.7b07133



Mesoscopic modelling and simulation of soft matter

1 ♦ Soft Matter / by Ulf D. Schiller / 51d

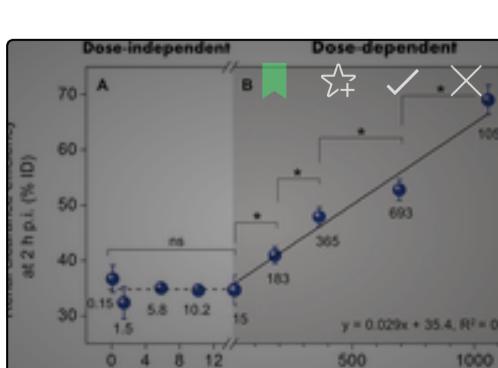
Soft Matter, 2017, Advance Article DOI: 10.1039/C7SM01711A, Tutorial Review Ulf D. Schiller, Timm Kruger, Oliver Henrich



Experimentalists and theorists need to talk

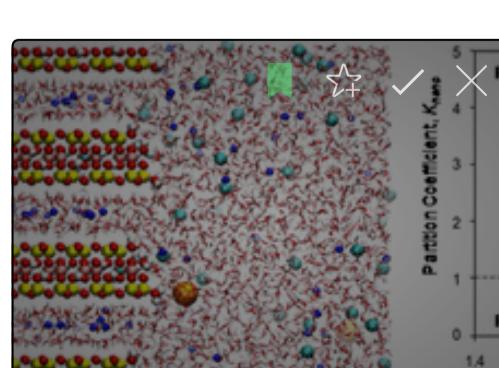
35 ♦ Nature / by Aaron W. Peters / 51d

Experimentalists and theorists need to talk, Experimentalists and theorists need to talk, Published online: 21 November 2017;



Dose Dependencies and Biocompatibility of Renal Clearable Gold Nanoparticles: From Mice to Non-human Primates

1 ♦ Angewandte Chemie International Edition / by Jing Xu, Mengxiao Yu, Chuanqi Peng, Phoebe Carter, Jia Tian, Xuhui Ning, Qinhan



Hydrophobic Solvation of Gases (CO2, CH4, H2, Noble Gases) in Clay Interlayer Nanopores

1 ♦ JPCC / by Greeshma Gadikota, Baptiste Dazas, Gernot Rother, Michael C. Cheshire and Ian C. Bourg / 52d

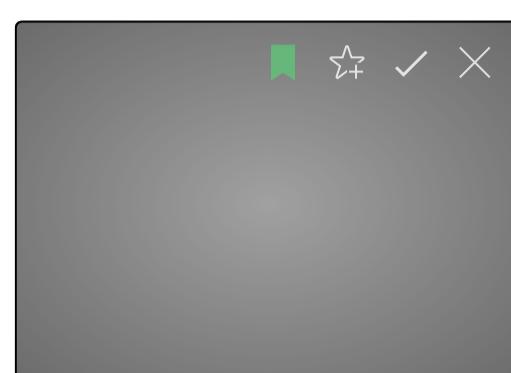


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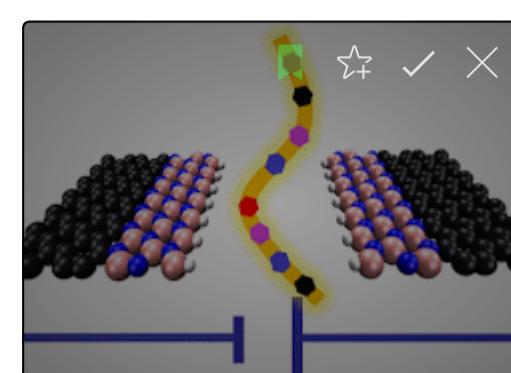
Abstract While dose dependencies in pharmacokinetics and clearance are often observed in clinically used small molecules,



All-Atom Molecular Dynamics-Based Analysis of Membrane-Stabilizing Copolymer Interactions with Lipid Bilayers Probed under Constant Surface Tensions

1 JPCB / by Evelyne M. Houang, Frank S. Bates, Yuk Y. Sham and Joseph M. Metzger / 52d

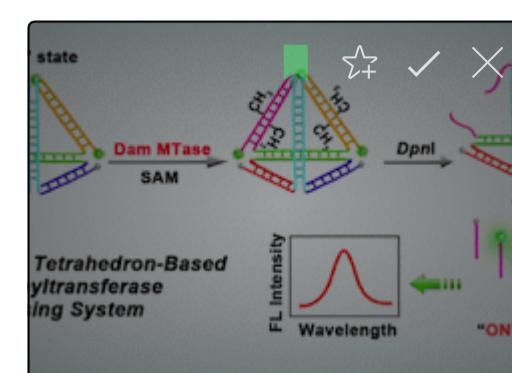
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b08938



Prospects of Graphene-hBN Heterostructure Nanogap for DNA Sequencing

1 ACS Applied Materials & Interfaces / by Vivekanand Shukla, Naresh K. Jena, Anton Grigoriev and Rajeev Ahuja / 52d

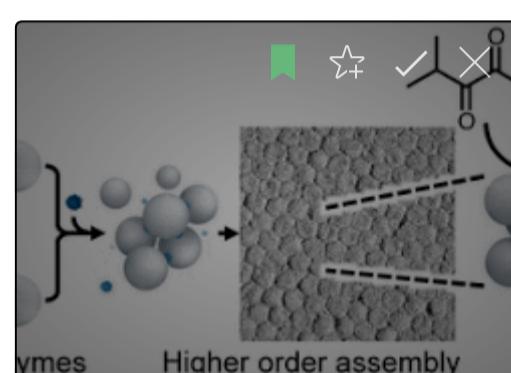
ACS Applied Materials & Interfaces DOI: 10.1021/acsami.7b06827



Collapse of DNA Tetrahedron Nanostructure for "Off-On" Fluorescence Detection of DNA Methyltransferase Activity

1 ACS Applied Materials & Interfaces / by Xiaoyan Zhou, Min Zhao, Xiaolei Duan, Bin Guo, Wei Cheng, Shijia Ding and Huangxian Ju / 52d

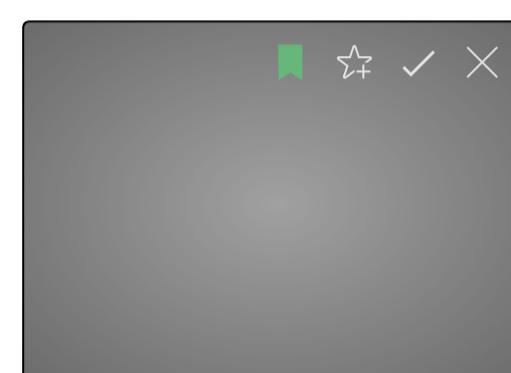
ACS Applied Materials & Interfaces DOI: 10.1021/acsami.7b13551



Modular Self-Assembly of Protein Cage Lattices for Multistep Catalysis

1 ACS Nano / by Masaki Uchida, Kimberly McCoy, Masafumi Fukuto, Lin Yang, Hideyuki Yoshimura, Heini M. Miettinen, Ben LaFrance, Dustin P. Patterson, Benjamin Schwarz, Jonathan A. Karty, Peter E. Prevelige, Byeongdu Lee and Trevor Douglas / 52d

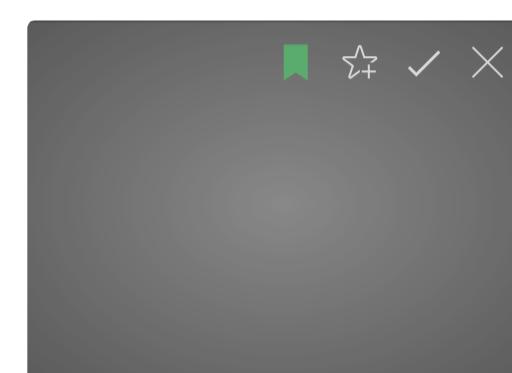
ACS Nano DOI: 10.1021/acsnano.7b06049



Unwinding Induced Melting of Double-Stranded DNA Studied by Free Energy Simulations

1 JPCB / by Korbinian Liebl and Martin Zacharias / 53d

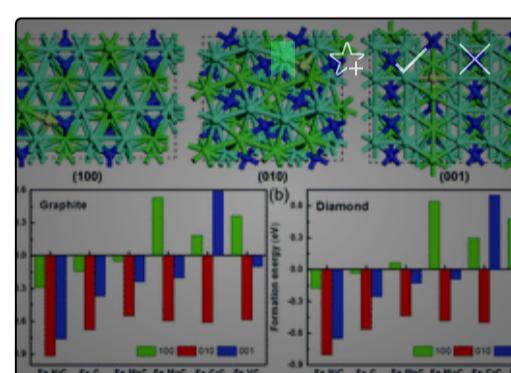
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b07701



Atomic model for the dimeric FO region of mitochondrial ATP synthase

1 Science / by Guo, H., Bueler, S. A., Rubinstein, J. L. / 56d

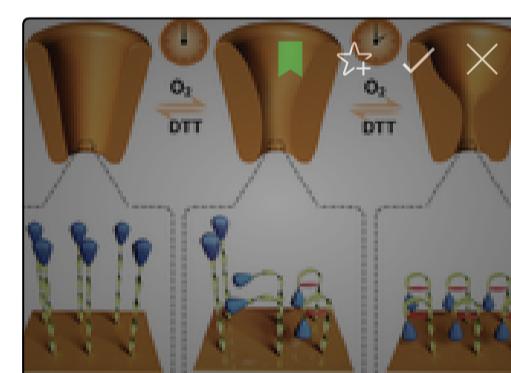
Mitochondrial adenosine triphosphate (ATP) synthase produces the majority of ATP in eukaryotic cells, and its dimerization is



Carbon adsorption on doped cementite surfaces for effective catalytic growth of diamond-like carbon: a first-principles study

1 Phys. Chem. Chem. Phys. / by Yang Yang / 57d

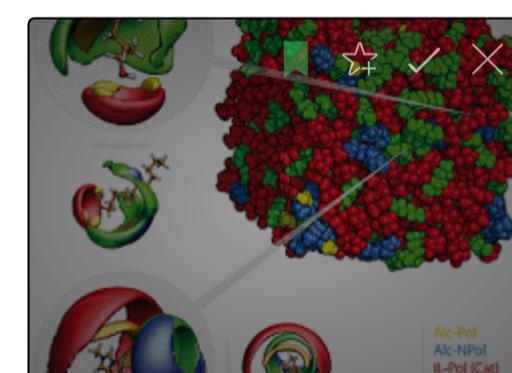
Phys. Chem. Chem. Phys., 2017, 19, 32341-32348 DOI: 10.1039/C7CP06598A, Paper Yang Yang, Juan Cui, Lei Li, Hao Lu, D. Y. Li,



Biomimetic Peptide-Gated Nanoporous Membrane for On-Demand Molecule Transport

1 Angewandte Chemie International Edition / by Kai Xiao, Kai Wu, Lu Chen, Xiang-Yu Kong, Yuqi Zhang, Liping Wen, Lei Jiang / 57d

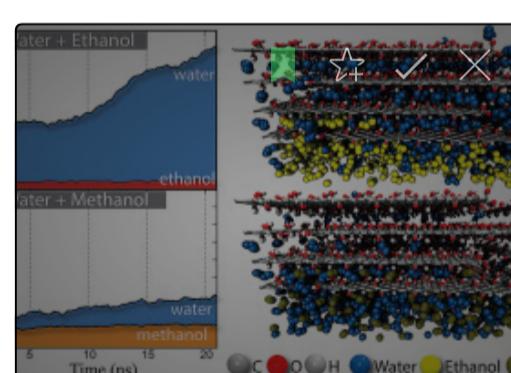
Abstract The controllable molecule transport is crucial to realize many highly valuable applications both in vivo and in



A Molecular Level Understanding of Template Effects in Ionic Liquids

1 Accounts of Chemical Research / by Roman Elfgen, Oldamar Hollóczki and Barbara Kirchner / 58d

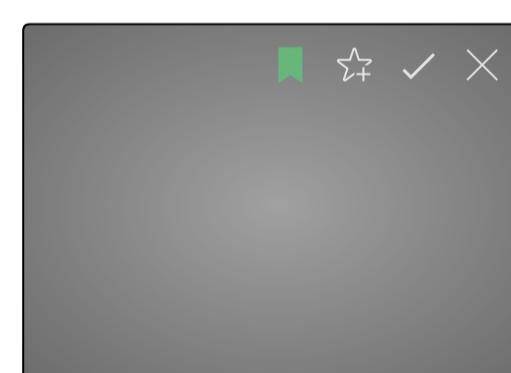
Accounts of Chemical Research DOI: 10.1021/acs.accounts.7b00436



Insights on the mechanism of water-alcohol separation in multilayer graphene oxide membranes: Entropic versus enthalpic factors

1 Carbon / 58d

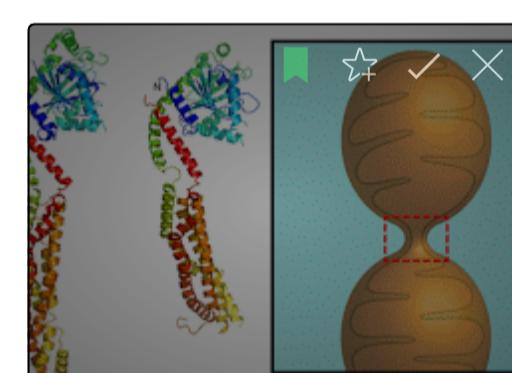
Publication date: Source: Carbon, Volume 127 Author(s): Daiane Damasceno Borges, Cristiano F. Woellner, Pedro A.S. Autreto,



Asymmetric Junctions Boost in-Plane Thermal Transport in Pillared Graphene

1 ACS Applied Materials & Interfaces / by Navid Sakhavand and Rouzbeh Shahsavari / 2mo

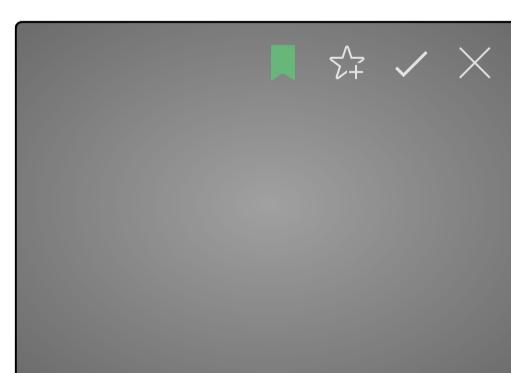
ACS Applied Materials & Interfaces DOI: 10.1021/acsami.7b16162



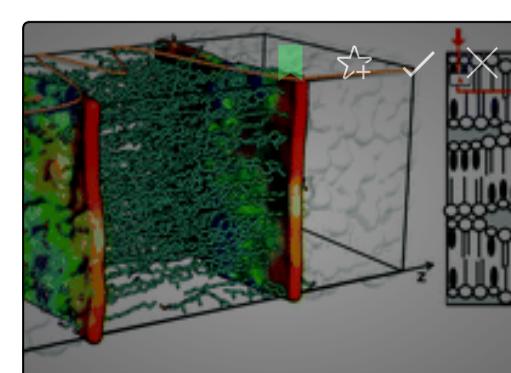
Molecular Motor Dnm1 Synergistically Induces Membrane Curvature To Facilitate Mitochondrial Fission

1 ACS Central Science: Latest Articles (ACS Publicat... / by Michelle W. Lee, Ernest Y. Lee, Ghee Hwee Lai, Nolan W. Kennedy, Ammon E. Posey, Wujing Xian, Andrew L. Ferguson, R. Blake Hill and Gerard C. L. Wong / 2mo

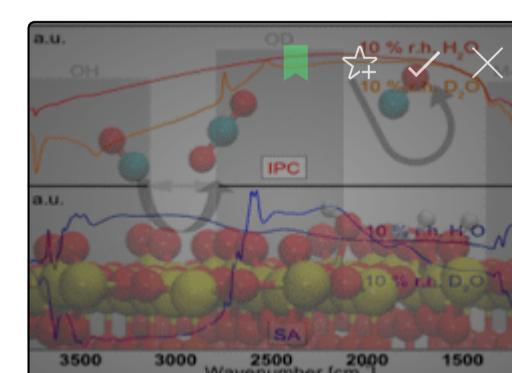
ACS Central Science DOI: 10.1021/acscentsci.7b00338



How the Incorporation of Pluronic Block Copolymers Modulates the Response of Lipid Membranes to Mechanical Stress



Permeation pathways through lateral domains in model membranes of skin lipids

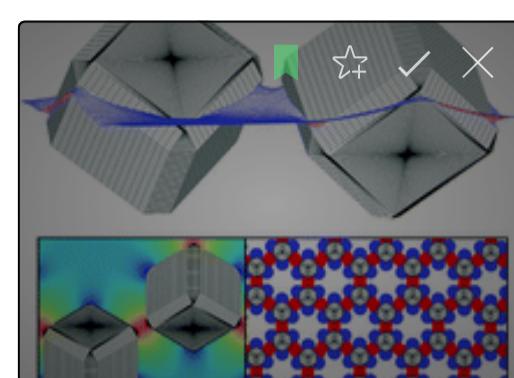


Ambient Humidity Influence on CO Detection with SnO₂ Gas Sensing Materials. A Combined DRIFTS/DFT Investigation



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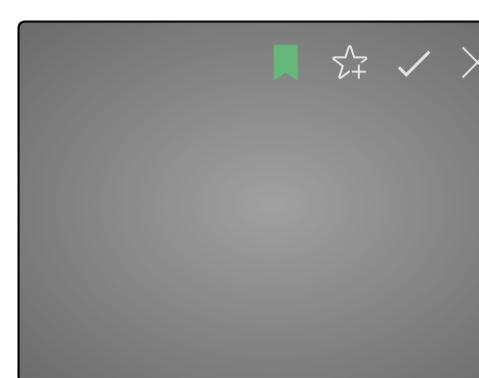
10.1021/acs.langmuir.7b02244

**Self-assembly of cubic colloidal particles at fluid-fluid interfaces by hexapolar capillary interactions**1*♦* Soft Matter / by Giuseppe Soligno / 2mo

Soft Matter, 2017, Advance Article DOI: 10.1039/C7SM01946G, Paper Giuseppe Soligno, Marijolein Dijkstra, Rene van Roij

Article DOI: 10.1039/C7CP03258G, Paper Annalaura Del Regno, Rebecca Notman

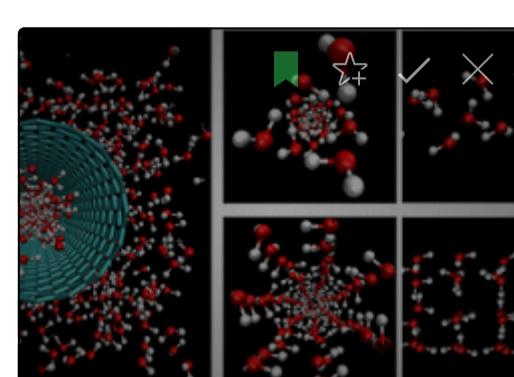
The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b06253

**Characterizing the Motion of Jointed DNA Nanostructures Using a Coarse-Grained Model**1*♦* ACS Nano / by Rahul Sharma, John S. Schreck, Flavio Romano, Ard A. Louis and Jonathan P. K. Doye / 2mo

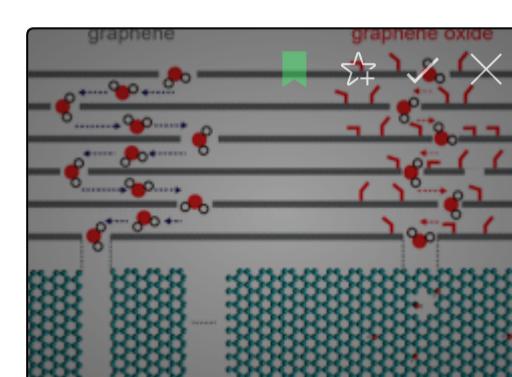
ACS Nano DOI: 10.1021/acsnano.7b06470

Membrane Permeability of Fatty Acyl Compounds Studied via Molecular Simulation1*♦* JPCB / by Josh V. Vermaas, Gregg T. Beckham and Michael F. Crowley / 2mo

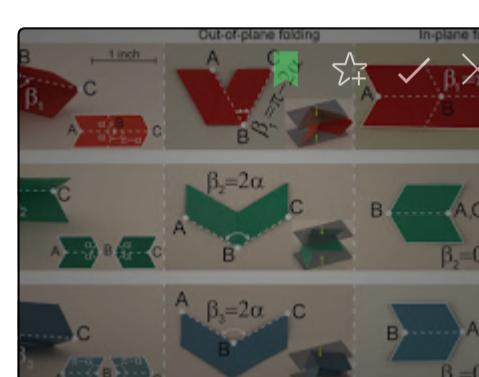
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b08233

**Freezing Temperatures, Ice Nanotubes Structures, and Proton Ordering of TIP4P/ICE Water inside Single Wall Carbon Nanotubes**1*♦* JPCB / by P. Pugliese, M. M. Conde, M. Rovere and P. Gallo / 2mo

The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b06306

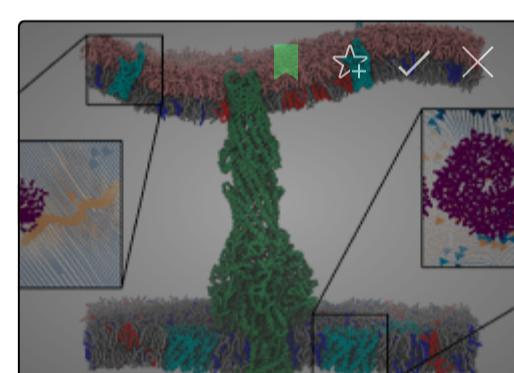
**Non-Continuum Intercalated Water Diffusion Explains Fast Permeation through Graphene Oxide Membranes**1*♦* ACS Nano / by Shuping Jiao and Zhiping Xu / 2mo

ACS Nano DOI: 10.1021/acsnano.7b05419

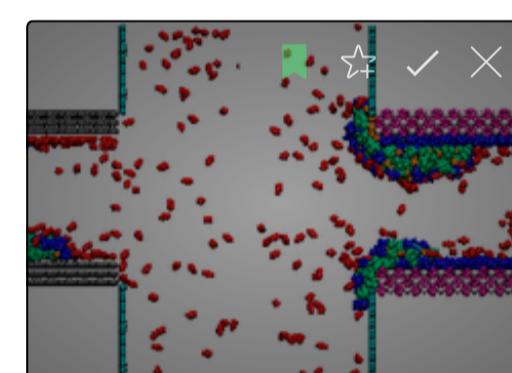
**Origami-based Building Blocks for Modular Construction of Foldable Structures**1*♦* Scientific Reports / by Davood Mousanezhad / 2mo

Origami-based Building Blocks for Modular Construction of Foldable Structures

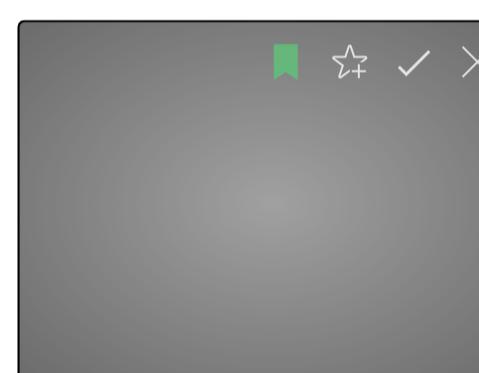
Origami-based Building Blocks for Modular

**It Is Complicated: Curvature, Diffusion, and Lipid Sorting within the Two Membranes of Escherichia coli**1*♦* JPCL / by Pin-Chia Hsu, Firdaus Samsudin, Jonathan Shearer and Syma Khalid / 2mo

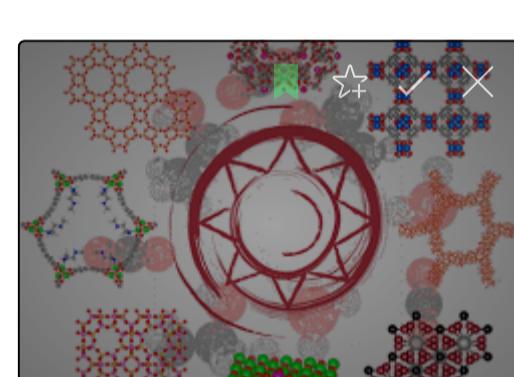
The Journal of Physical Chemistry Letters DOI: 10.1021/acs.jpclett.7b02432

**A Molecular Simulation Study of Carbon Dioxide Uptake by a Deep Eutectic Solvent Confined in Slit Nanopores**1*♦* JPC / by Yan Shen and Francisco R. Hung / 2mo

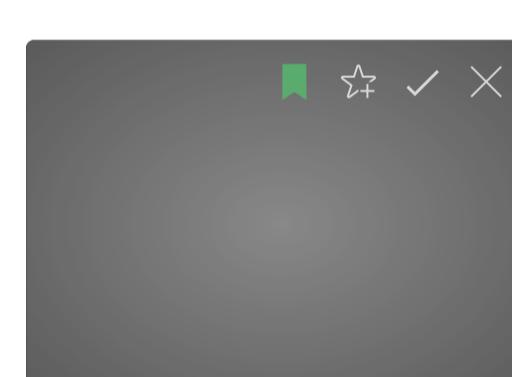
The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b07315

**Molecular Simulations of Melittin-Induced Membrane Pores**1*♦* JPCB / by Delin Sun, Jan Forsman and Clifford E. Woodward / 2mo

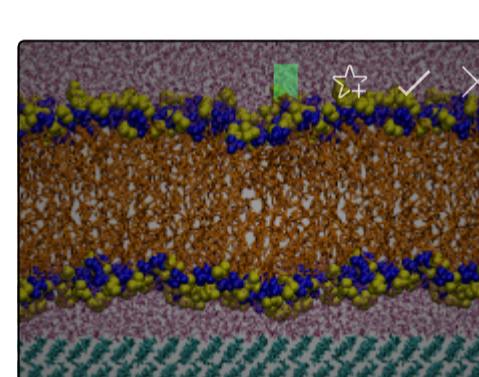
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b07126

**Probing the Energetics of Molecule–Material Interactions at Interfaces and in Nanopores**1*♦* JPCC / by Gengnan Li, Hui Sun, Hongwu Xu, Xiaofeng Guo and Di Wu / 2mo

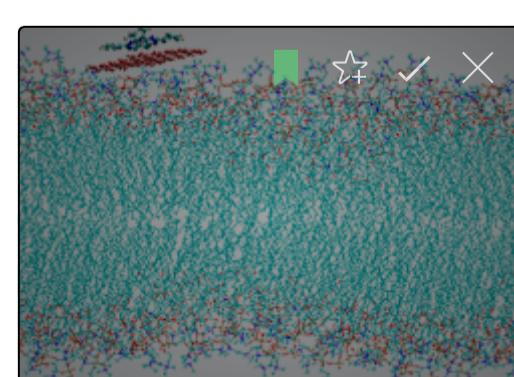
The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b07450

**Controlled growth and shape-directed self-assembly of gold nanoarrows**4*♦* Science Advances current issue / by Wang, Q., Wang, Z., Li, Z., Xiao, J., Shan, H., Fang, Z., Qi, L. / 2mo

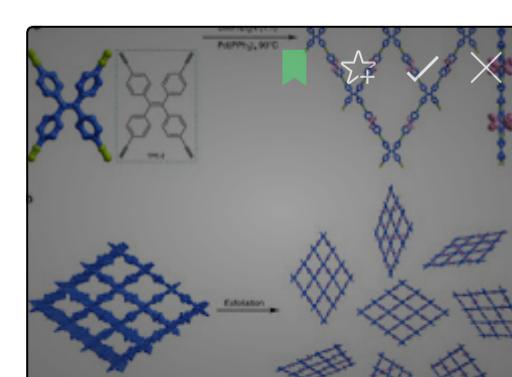
Self-assembly of colloidal nanocrystals into complex superstructures offers notable opportunities to create functional devices

**Molecular-Level Insight into the Interaction of Phospholipid Bilayers with Cellulose**1*♦* Langmuir / by Andrei Yu. Kostritskii, Dmitry A. Tolmachev, Natalia V. Lukasheva and Andrey A. Gurtovenko / 2mo

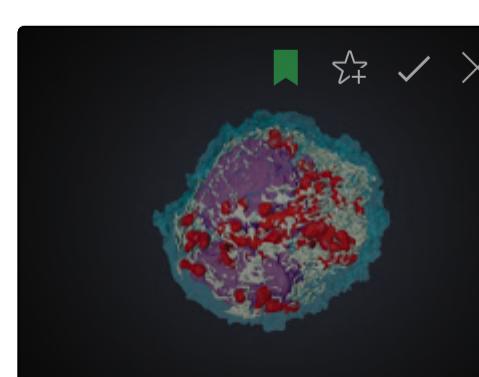
Langmuir DOI: 10.1021/acs.langmuir.7b02297

**Simulations of a Graphene Nanoflake as a Nanovector To Improve ZnPc Phototherapy Toxicity: From Vacuum to Cell Membrane**1*♦* ACS Applied Materials & Interfaces / by Eric Duverger, Fabien Picaud, Louise Stauffer and Philippe Sonnet / 2mo

ACS Applied Materials & Interfaces DOI: 10.1021/acsami.7b09054

**Ultrathin two-dimensional porous organic nanosheets with molecular rotors for chemical sensing**1*♦* Nature Communications / by Jinqiao Dong / 2mo

Ultrathin two-dimensional porous organic nanosheets with molecular rotors for chemical sensing Nature Communications,

**The Human Cell Atlas: from vision to reality**1K*♦* Nature / by Orit Rozenblatt-Rosen / 2mo

The Human Cell Atlas: from vision to reality Nature 550, 7677 (2017).

doi:10.1038/550451a Authors: Orit



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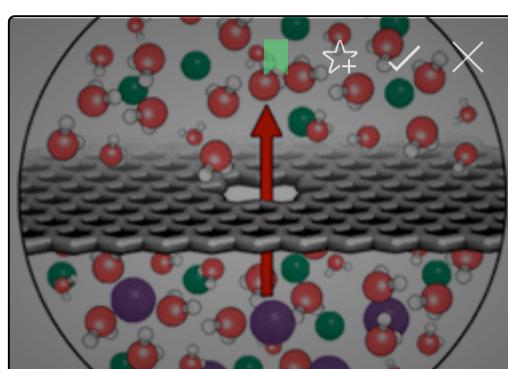


Effects of Nanopore Charge Decorations on the Translocation Dynamics of DNA

1 ⚡ Biophysical Journal / 2mo

Publication date: Source: Biophysical Journal, Volume 113, Issue 8 Author(s): Ining Jou, Murugappan Muthukumar

The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b06482



Punctured Two-Dimensional Sheets for Harvesting Blue Energy

1 ⚡ ACS Nano / by Alessandro Aliprandi, Dawid Pakulski, Artur Ciesielski and Paolo Samori / 2mo

ACS Nano DOI: 10.1021/acsnano.7b06657

Molecular Dynamics Simulation Study of Polymer Nanocomposites with Controllable Dispersion of Spherical Nanoparticles

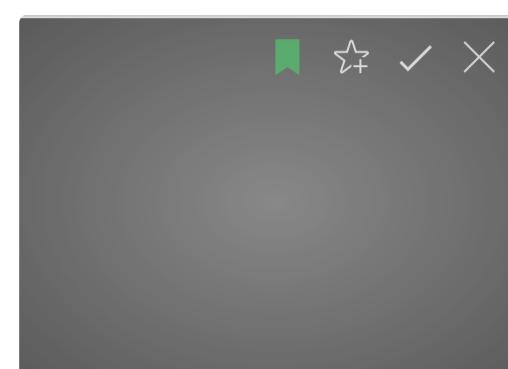
1 ⚡ JPCB / by Zijian Zheng, Guanyi Hou, Xiuyang Xia, Jun Liu, Mesfin Tsige, Youping Wu and Liqun Zhang / 2mo

The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b06482

Molecular Dynamics Simulations of Ceramide and Ceramide-Phosphatidylcholine Bilayers

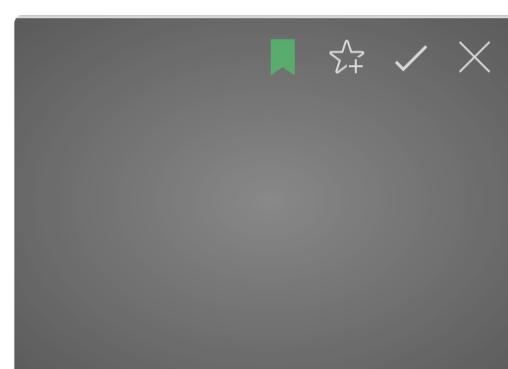
1 ⚡ JPCB / by Eric Wang and Jeffery B. Klauda / 2mo

The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b08967



A strategy for drug discovery

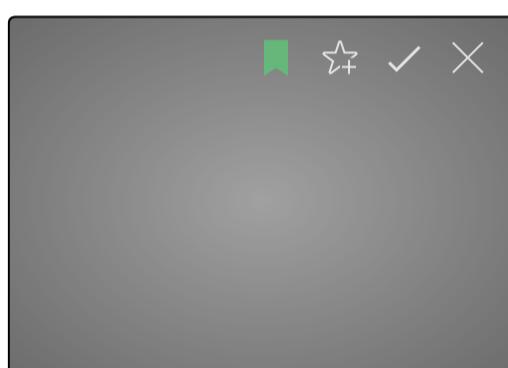
2 ⚡ Science / by Vinson, V. / 2mo



DNA sequencing at 40: past, present and future

17 ⚡ Nature / by Jay Shendure / 2mo

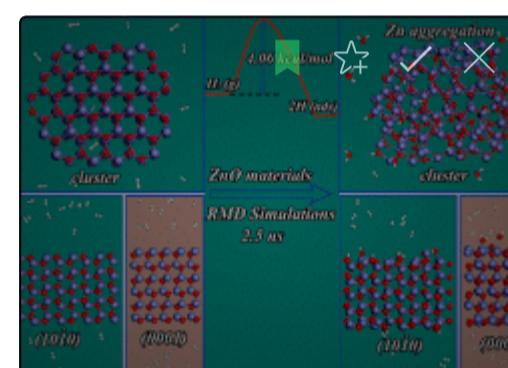
DNA sequencing at 40: past, present and future Nature 550, 7676 (2017). doi:10.1038/nature24286 Authors: Jay



Effects of Solid Fraction on Droplet Wetting and Vapor Condensation: A Molecular Dynamic Simulation Study

1 ⚡ Langmuir / by Shan Gao, Quanwen Liao, Wei Liu and Zhichun Liu / 2mo

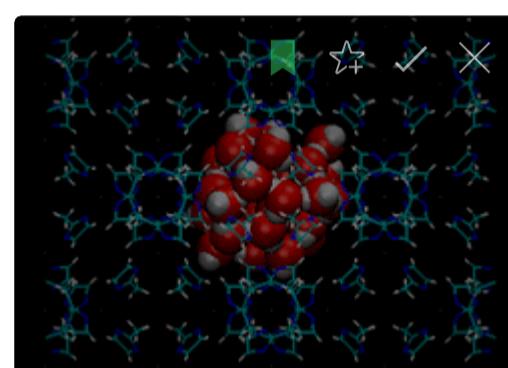
Langmuir DOI: 10.1021/acs.langmuir.7b03193



ReaxFF Molecular Dynamic Simulations of ZnO Nanocluster and Films in H₂ Atmosphere

1 ⚡ JPCC / by Sheng-En Zhang, Feng Cheng, Xiang He and Zhao-Xu Chen / 2mo

The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b07461



Computational Study of Water Adsorption in the Hydrophobic Metal–Organic Framework ZIF-8: Adsorption Mechanism and Acceleration of the Simulations

1 ⚡ JPCC / by Hongda Zhang and Randall Q. Snurr / 2mo

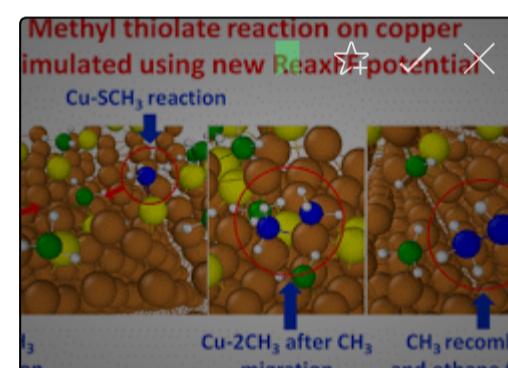
The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b06405



Comprehensive End-to-End Design of Novel High Energy Density Materials: II. Computational Modeling and Predictions

1 ⚡ JPCC / by Roman Tsyshhevsky, Philip Pagoria, Aleksandr S. Smirnov and Maija M. Kuklja / 2mo

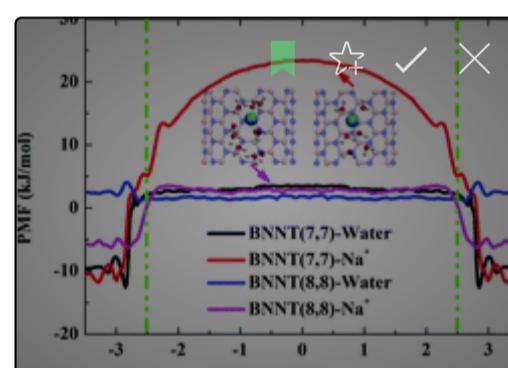
The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b07585



Development of a ReaxFF Force Field for Cu/S/C/H and Reactive MD Simulations of Methyl Thiolate Decomposition on Cu (100)

1 ⚡ JPCB / by Jejoon Yeon, Heather L. Adams, Chad E. Junkermeier, Adri C. T. van Duin, Wilfred T. Tysoe and Ashlie Martini / 2mo

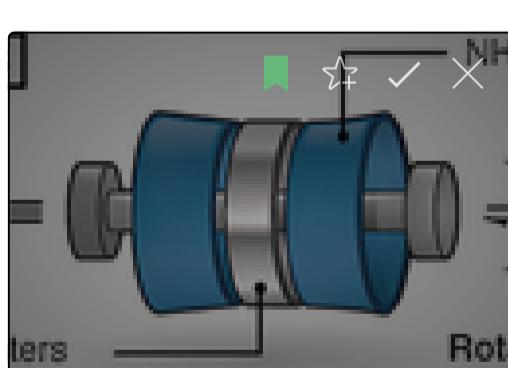
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b06976



Computer simulation of water desalination through boron nitride nanotubes

1 ⚡ Phys. Chem. Chem. Phys. / by Lijun Liang / 2mo

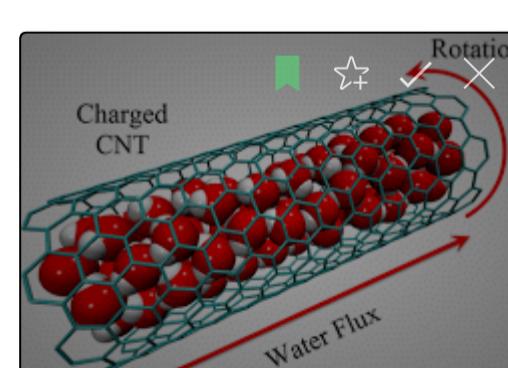
Phys. Chem. Chem. Phys., 2017, 19, 30031-30038 DOI: 10.1039/C7CP06230C, Paper Lijun Liang, Jia-Chen Li, Li Zhang, Zhisen



A pH-Dependent, Mechanically Interlocked Switch: Organometallic [2]Rotaxane vs. Organic [3]Rotaxane

1 ⚡ Angewandte Chemie International Edition / by Philipp J. Altmann, Alexander Pöthig / 2mo

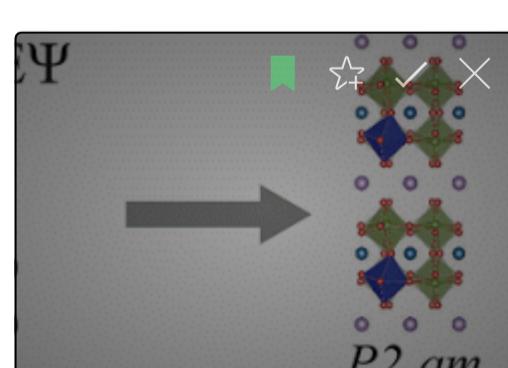
Abstract We present the first [2]rotaxane featuring a functional organometallic host. In contrast to the known organic scaffolds,



Unidirectional Transport of Water through an Asymmetrically Charged Rotating Carbon Nanotube

1 ⚡ JPCB / by Milad Khodabakhshi and Ali Moosavi / 2mo

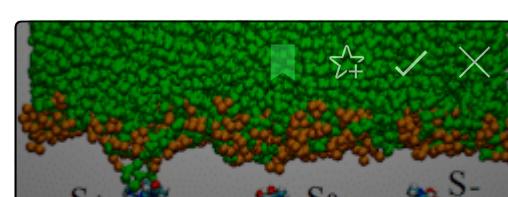
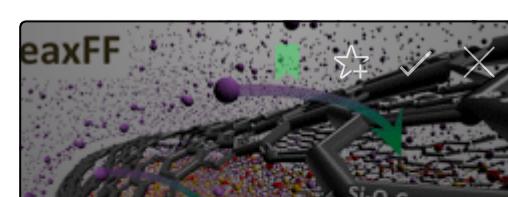
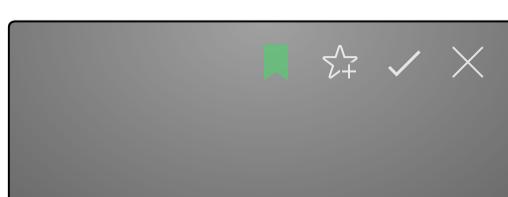
The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b06003



Theory and Neutrons Combine To Reveal a Family of Layered Perovskites without Inversion Symmetry

1 ⚡ Chemistry of Materials / by Tong Zhu, Toby Cohen, Alexandra S. Gibbs, Weigu Zhang, P. Shiv Halasyamani, Michael A. Hayward and Nicole A. Benedek / 2mo

Chemistry of Materials DOI: 10.1021/acs.chemmater.7b03604





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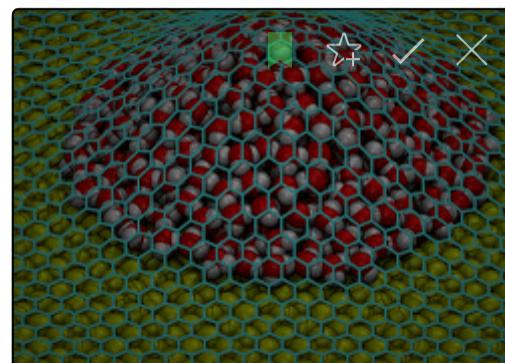
Search



Metal Borohydrides as Electrolytes for Solid-State Li, Na, Mg, and Ca Batteries: A First-Principles Study

1 ♦ Chemistry of Materials / by Ziheng Lu and Francesco Ciucci / 2mo

Chemistry of Materials DOI:
10.1021/acs.chemmater.7b03284



Infrared Spectral and Dynamical Properties of Water Confined in Nanobubbles at Hybrid Interfaces of Diamond and Graphene: A Molecular Dynamics Study

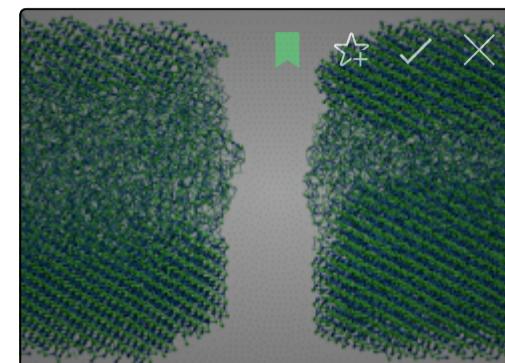
1 ♦ JPCC / by Abhijit Kayal and Amalendu Chandra / 2mo

The Journal of Physical Chemistry C DOI:
10.1021/acs.jpcc.7b06911

Atomistic Simulation Protocol for Improved Design of Si-O-C Hybrid Nanostructures as Li-Ion Battery Anodes: ReaxFF Reactive Force Field

1 ♦ JPCC / by Byung Chul Yeo, Hyun Jung, Hong Woo Lee, Kang-Seop Yun, Hyunjung Kim, Kwang-Ryeol Lee and Sang Soo Han / 2mo

The Journal of Physical Chemistry C DOI:
10.1021/acs.jpcc.7b07095



Atomistic Simulations of the Crystallization and Aging of GeTe Nanowires

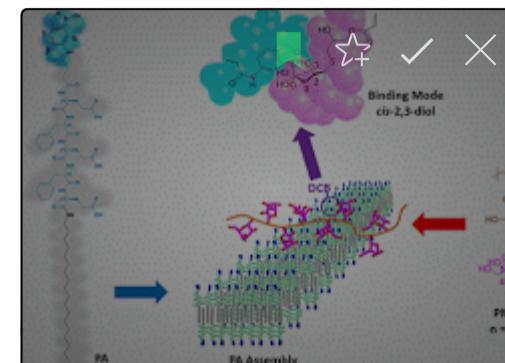
1 ♦ JPCC / by S. Gabardi, E. Baldi, E. Bosoni, D. Campi, S. Caravati, G. C. Sosso, J. Behler and M. Bernasconi / 2mo

The Journal of Physical Chemistry C DOI:
10.1021/acs.jpcc.7b09862

Sequence-Dependent Interfacial Adsorption and Permeation of Dipeptides across Phospholipid Membranes

1 ♦ JPCB / by Chenyu Wei and Andrew Pohorille / 2mo

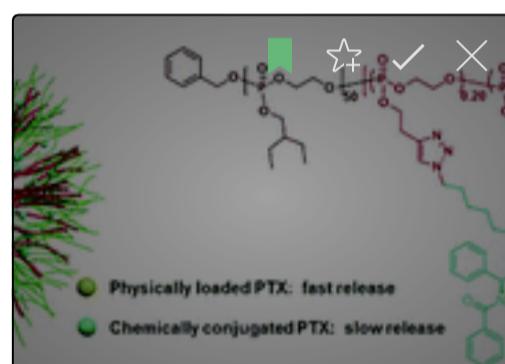
The Journal of Physical Chemistry B DOI:
10.1021/acs.jpcb.7b08238



Interactions of Glycopolymers with Assemblies of Peptide Amphiphiles via Dynamic Covalent Bonding

1 ♦ ACS Biomaterials Science & Engineering: Latest Art... / by Jue Wang, Zhenfei Gao, Wenjing Qi, Yu Zhao, Pan Zhang, Mingchang Lin, Zhiming Li, Guosong Chen and Ming Jiang / 2mo

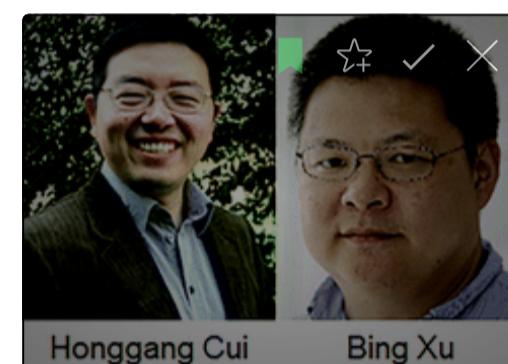
ACS Biomaterials Science & Engineering DOI: 10.1021/acsbiomaterials.7b00642



Design and development of multifunctional polyphosphoester-based nanoparticles for ultrahigh paclitaxel dual loading

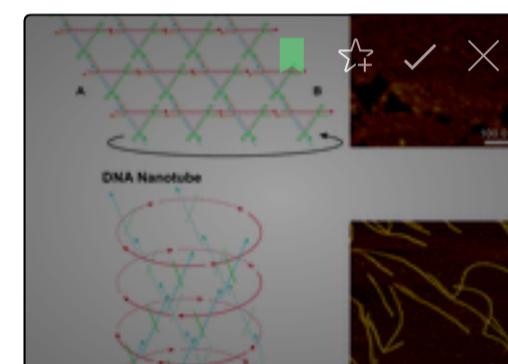
1 ♦ Nanoscale / by Fuwu Zhang / 2mo

Nanoscale , 2017, 9, 15773-15777 DOI :
10.1039/C7NR05935C, Communication
Fuwu Zhang, Sarosh Khan, Richen Li, Justin



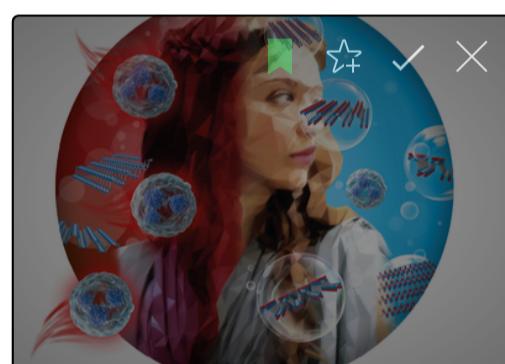
Supramolecular medicine

1 ♦ Chem. Soc. Rev. / by Honggang Cui / 2mo
Chem. Soc. Rev. , 2017, 46, 6430-6432 DOI :
10.1039/C7CS0102J, Editorial Honggang Cui, Bing Xu Guest editors Honggang Cui



DNA nanotubes assembled from tensegrity triangle tiles with circular DNA scaffolds

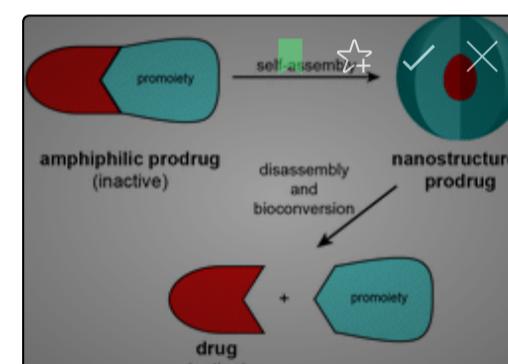
1 ♦ Nanoscale / by Noshin Afshan / 3mo
Nanoscale , 2017, 9, 17181-17185 DOI :
10.1039/C7NR04869F, Communication
Noshin Afshan, Mashooq Ali, Meng Wang,



Back Cover: Improved Biocompatibility of Black Phosphorus Nanosheets by Chemical Modification (Angew. Chem. Int. Ed. 46/2017)

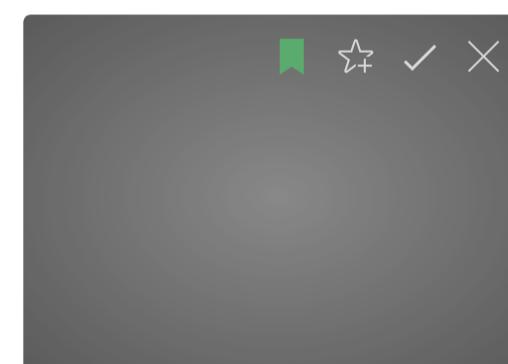
1 ♦ Angewandte Chemie International Edition / by Guangbo Qu, Wei Liu, Yuetao Zhao, Jie Gao, Tian Xia, Jianbo Shi, Ligang Hu, Wenhua Zhou, Jiejun Gao, Huaiyu Wang, Qian Luo, Qunfang Zhou, Sijin Liu, Xue-Feng Yu, Guibin Jiang / 3mo

Ultrasmall black phosphorous nanosheets (BPs) can trigger systemic inflammations. In their Communication on page 14488 ff., X.-



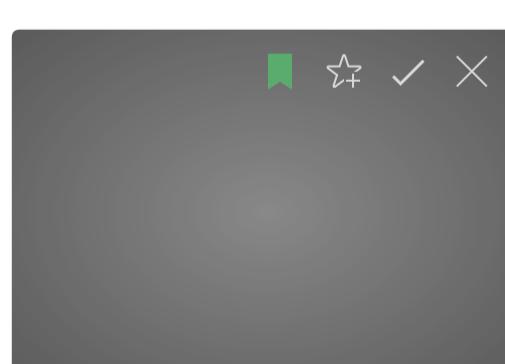
Self-assembling prodrugs

1 ♦ Chem. Soc. Rev. / by Andrew G. Cheetham / 3mo
Chem. Soc. Rev. , 2017, 46, 6638-6663 DOI :
10.1039/C7CS00521K, Review Article
Andrew G. Cheetham, Rami W. Chakroun,



Patchy particles made by colloidal fusion

1 ♦ Nature / by Zhe Gong / 3mo
Patchy particles made by colloidal fusion
Nature 550, 7675 (2017).
doi:10.1038/nature23901 Authors: Zhe



Layer-by-layer assembly of two-dimensional materials into wafer-scale heterostructures

1 ♦ Nature / by Kibum Kang / 3mo

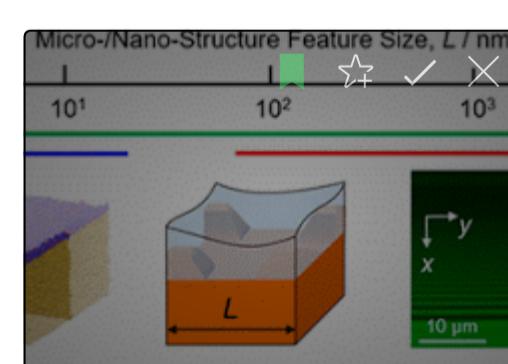
Layer-by-layer assembly of two-dimensional materials into wafer-scale heterostructures
Nature 550, 7675 (2017).



Precise Assembly of Particles for Zigzag or Linear Patterns

1 ♦ Angewandte Chemie International Edition / by Dan Guo, Chang Li, Yang Wang, Yanan Li, Yanlin Song / 3mo

Abstract Precise control of particles assembly has tremendous potential for fabricating intricate structures and



Multiscale Modeling of the Three-Dimensional Meniscus Shape of a Wetting Liquid Film on Micro-Nanostructured Surfaces

1 ♦ Langmuir / by Han Hu, Monojit Chakraborty, Taylor P. Allred, Justin A. Weibel and Suresh V. Garimella / 3mo

Langmuir DOI:
10.1021/acs.langmuir.7b02837





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Simulations predict microbial responses in the environment? This environment disagrees retrospectively [Letters (Online Only)]

1 PNAS / by Tom O. Delmont, A. Murat Eren / 3mo

In their recent study, Hu et al. (1) simulated in the laboratory the deep-sea oil plume of the Deepwater Horizon (DWH) disaster, and

Biologically Inspired Design of Nanoparticle Artificial Antigen-Presenting Cells for Immunomodulation

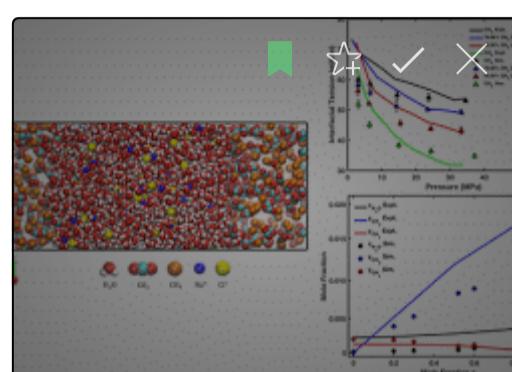
1 Nano Letters / by John W. Hickey, Fernando P. Vicente, Gregory P. Howard, Hai-Quan Mao and Jonathan P. Schneck / 3mo

Nano Letters DOI: 10.1021/acs.nanolett.7b03734

From Nanoscale to Microscale: Crossover in the Diffusion Dynamics within Two Pyrrolidinium-Based Ionic Liquids

1 JPCL / by Mosè Casalegno, Guido Raos, Giovanni Battista Appetecchi, Stefano Passerini, Franca Castiglione and Andrea Mele / 3mo

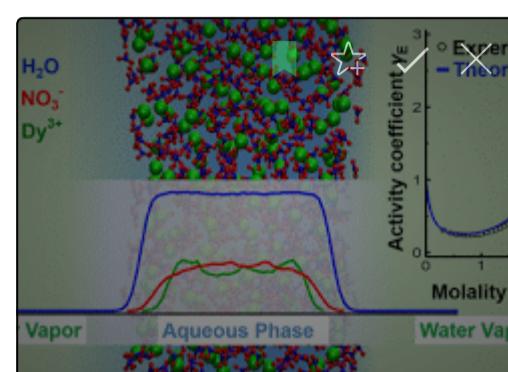
The Journal of Physical Chemistry Letters DOI: 10.1021/acs.jpclett.7b02431



Molecular Dynamics Simulation Study of Carbon Dioxide, Methane, and Their Mixture in the Presence of Brine

1 JPCB / by Yafan Yang, Arun Kumar Narayanan Nair and Shuyu Sun / 3mo

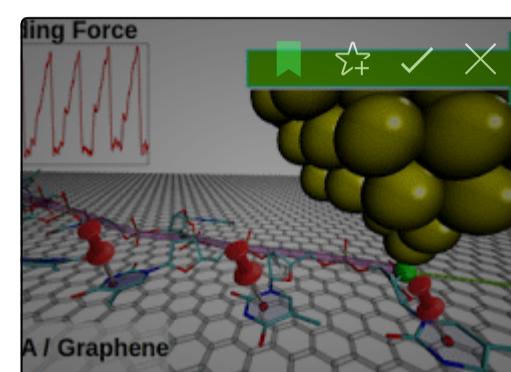
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b08118



Simulating Osmotic Equilibria: A New Tool for Calculating Activity Coefficients in Concentrated Aqueous Salt Solutions

1 JPCB / by Michael Bley, Magali Duvail, Philippe Guilbaud and Jean-François Dufrêche / 3mo

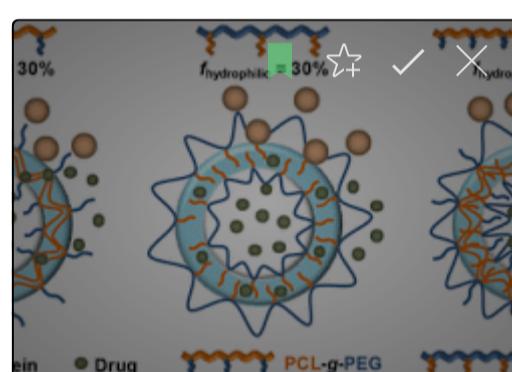
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b04011



Stick-Slip Motion of ssDNA over Graphene

1 JPCB / by J. G. Vilhena, Enrico Grecco, Rémy Pawlak, Fernando Moreno-Herrero, Ernst Meyer and Rubén Pérez / 3mo

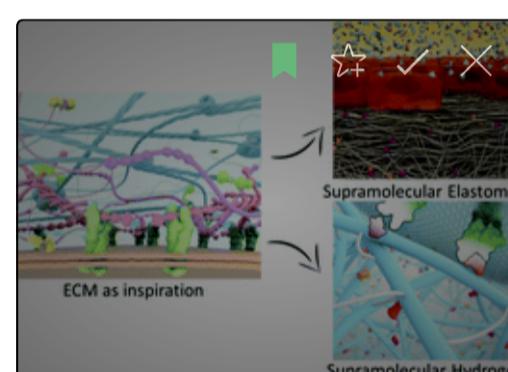
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b06952



Compact Vesicles Self-Assembled from Binary Graft Copolymers with High Hydrophilic Fraction for Potential Drug/Protein Delivery

1 ACS Macro Letters / by Yupeng Wang, Lina Wang, Bin Li, Yanxiang Cheng, Dongfang Zhou, Xuesi Chen, Xiabin Jing and Yubin Huang / 3mo

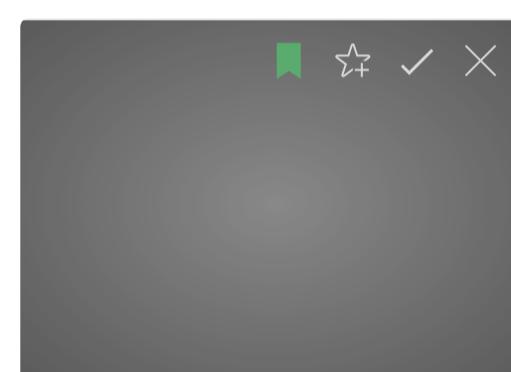
ACS Macro Letters DOI: 10.1021/acsmacrolett.7b00549



From supramolecular polymers to multi-component biomaterials

1 Chem. Soc. Rev. / by Olga J. G. M. Goor / 3mo

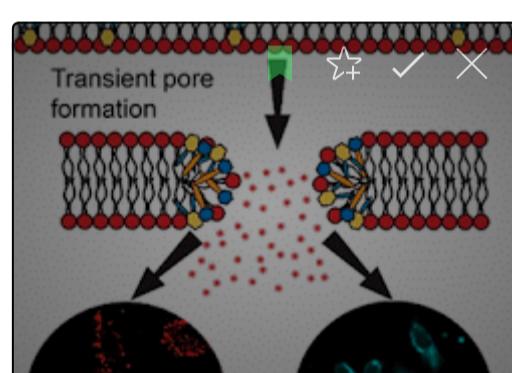
Chem. Soc. Rev., 2017, 46, 6621-6637 DOI: 10.1039/C7CS00564D, Review Article Open Access This article is licensed under a



Programmable assembly of pressure sensors using pattern-forming bacteria

12 Nature Biotechnology / by Yangxiaolu Cao / 3mo

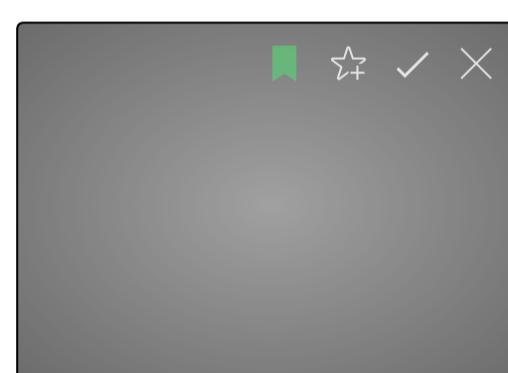
Programmable assembly of pressure sensors using pattern-forming bacteria Nature Biotechnology, Published online: 9 October



Ultrafast Delivery of Aggregation-Induced Emission Nanoparticles and Pure Organic Phosphorescent Nanocrystals by Saponin Encapsulation

1 JACS / by Alexander Nicol, Ryan T. K. Kwok, Congping Chen, Weijun Zhao, Ming Chen, Jianan Qu and Ben Zhong Tang / 3mo

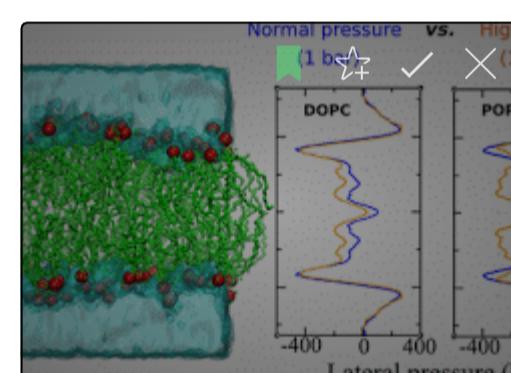
Journal of the American Chemical Society DOI: 10.1021/jacs.7b08710



Morphology Evolution of Polymeric Assemblies Regulated with Fluoro-Containing Mesogen in Polymerization-Induced Self-Assembly

1 Macromolecules / by Meng Huo, Yiyang Zhang, Min Zeng, Lei Liu, Yen Wei and Jinying Yuan / 3mo

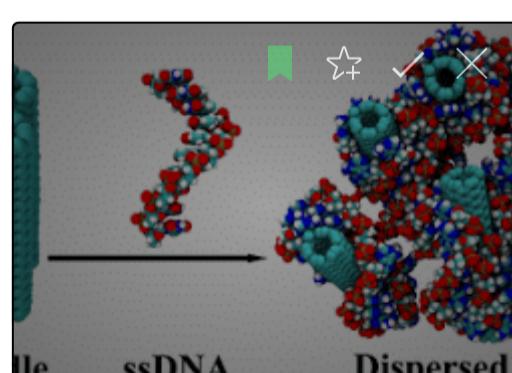
Macromolecules DOI: 10.1021/acs.macromol.7b01437



Effects of High Pressure on Phospholipid Bilayers

1 JPCB / by Wei Ding, Michail Palaiokostas, Ganesh Shahane, Wen Wang and Mario Orsi / 3mo

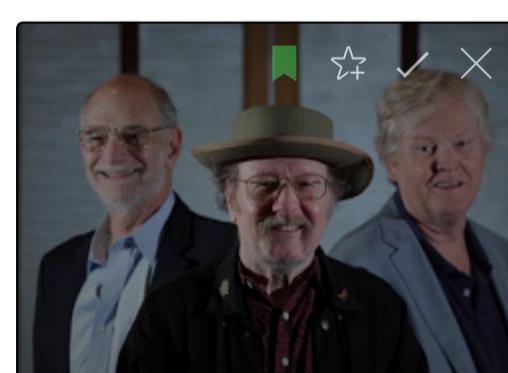
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b07119



DNA-Assisted Dispersion of Carbon Nanotubes and Comparison with Other Dispersing Agents

1 ACS Applied Materials & Interfaces / by Debabrata Pramanik and Prabal K. Maiti / 3mo

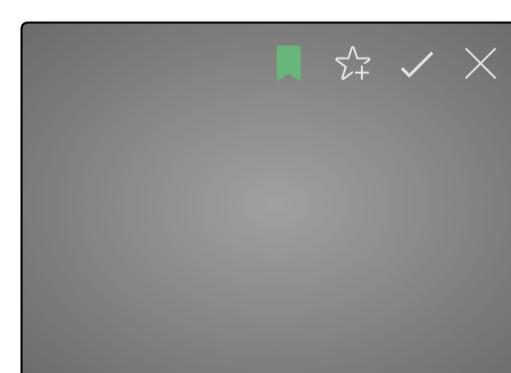
ACS Applied Materials & Interfaces DOI: 10.1021/acsami.7b06751



Medicine Nobel awarded for work on circadian clocks

6K Nature / by Ewen Callaway / 3mo

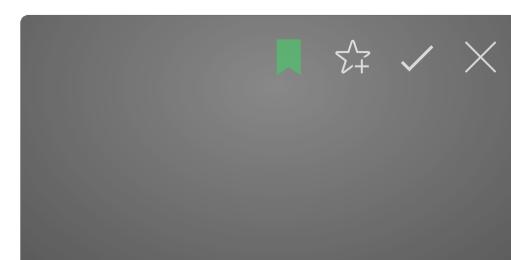
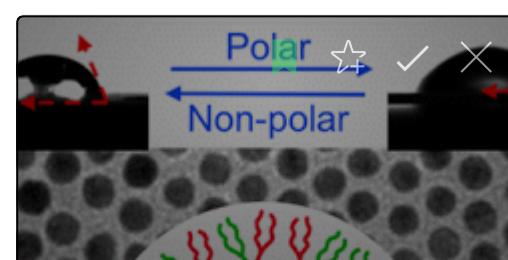
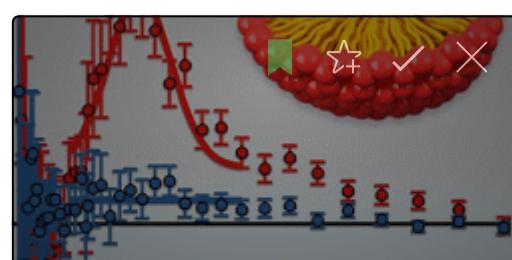
Medicine Nobel awarded for work on circadian clocks Nature 550, 7674 (2017). http://www.nature.com/doifinder/10.1038/n



Self-Assembly of Mesophases from Nanoparticles

1 JPCL / by Abhinav Kumar and Valeria Molinero / 3mo

The Journal of Physical Chemistry Letters DOI: 10.1021/acs.jpclett.7b02237





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Designing Mixed Detergent Micelles for Uniform Neutron Contrast

1 ♦ JPCL / by Ryan C. Oliver, Sai Venkatesh Pingali and Volker S. Urban / 3mo
The Journal of Physical Chemistry Letters
DOI: 10.1021/acs.jpclett.7b02149



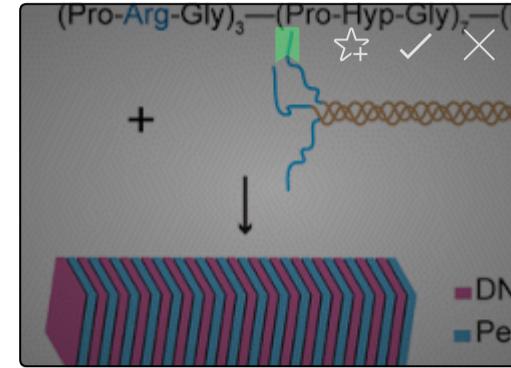
Editorial: Drug Delivery: Too Much Complexity, Not Enough Reproducibility?

1 ♦ Angewandte Chemie International Edition / by Jean-Christophe Leroux / 3mo
... Drug-delivery research is experiencing a major expansion, however the upsurge in published reports does not correlate with

Design, Self-Assembly, and Switchable Wettability in Hydrophobic, Hydrophilic, and Janus Dendritic Ligand-Gold Nanoparticle Hybrid Materials

1 ♦ Chemistry of Materials / by Katherine C. Elbert, Davit Jishkariani, Yaoting Wu, Jennifer D. Lee, Bertrand Donnio and Christopher B. Murray / 3mo

Chemistry of Materials DOI:
10.1021/acs.chemmater.7b02928



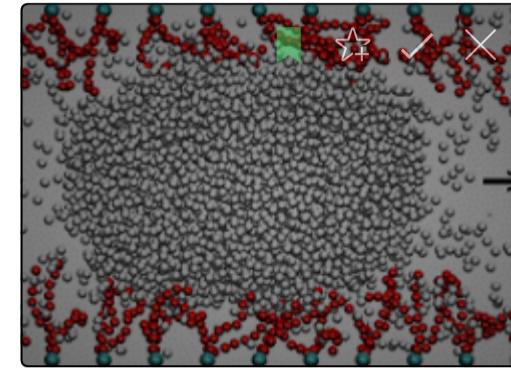
Structurally Ordered Nanowire Formation from Co-Assembly of DNA Origami and Collagen-Mimetic Peptides

1 ♦ JACS / by Tao Jiang, Travis A. Meyer, Charles Modlin, Xiaobing Zuo, Vincent P. Conticello and Yonggang Ke / 3mo
Journal of the American Chemical Society
DOI: 10.1021/jacs.7b08087

Pore formation in lipid membrane II: Energy landscape under external stress

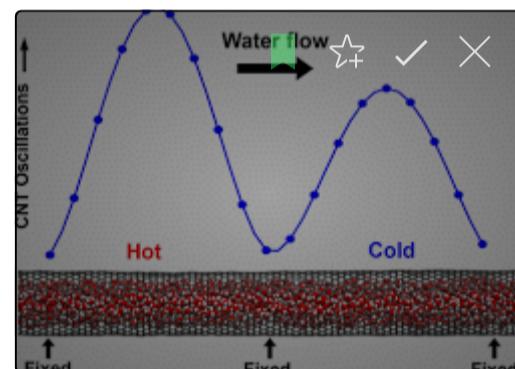
1 ♦ Scientific Reports / by Sergey A. Akimov / 3mo

Pore formation in lipid membrane II: Energy landscape under external stress Scientific Reports, Published online: 2 October 2017;



Droplet Transport in a Nanochannel Coated by Hydrophobic Semiflexible Polymer Brushes: The Effect of Chain Stiffness

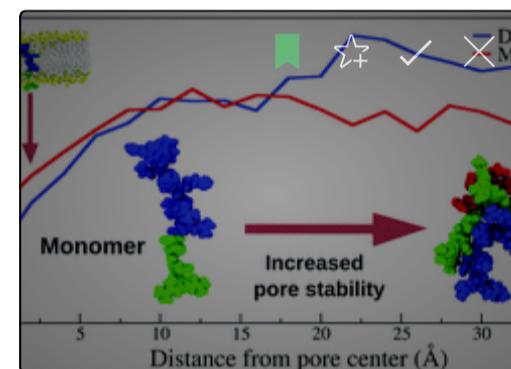
1 ♦ Langmuir / by K. Speyer and C. Pastorino / 3mo
Langmuir DOI:
10.1021/acs.langmuir.7b02640



Carbon Nanotubes as Thermally Induced Water Pumps

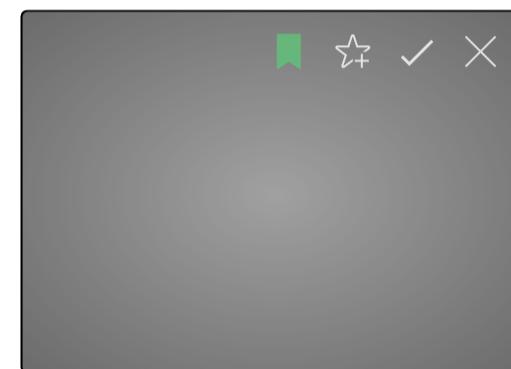
1 ♦ ACS Nano / by Elton Oyarzua, Jens Honore Walther, Constantine M Megaridis, Petros Koumoutsakos and Harvey A. Zambreno / 3mo

ACS Nano DOI: 10.1021/acsnano.7b04177



The role of Tat peptide self-aggregation in membrane pore stabilization: insights from a computational study

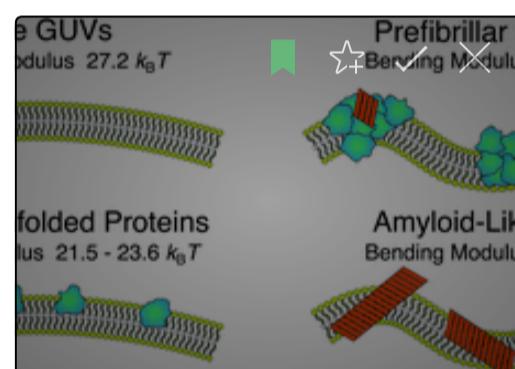
1 ♦ Phys. Chem. Chem. Phys. / by Muhammad Jan Akhunzada / 3mo
Phys. Chem. Chem. Phys., 2017, 19, 27603-27610 DOI : 10.1039/C7CP05103D, Paper
Muhammad Jan Akhunzada,



Topology Effects on the Structural and Physicochemical Properties of Polymer Brushes

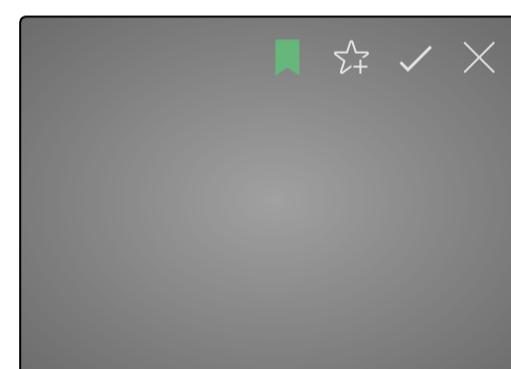
1 ♦ Macromolecules / by Mohammad Divandari, Giulia Morgese, Lucca Trachsel, Matteo Romio, Ella S. Dehghani, Jan-Georg Rosenboom, Cristina Paradisi, Marcy Zenobi-Wong, Shivaprakash N. Ramakrishna and Edmondo M. Benetti / 3mo

Macromolecules DOI:
10.1021/acs.macromol.7b01720



Interaction with prefibrillar species and amyloid-like fibrils changes the stiffness of lipid bilayers

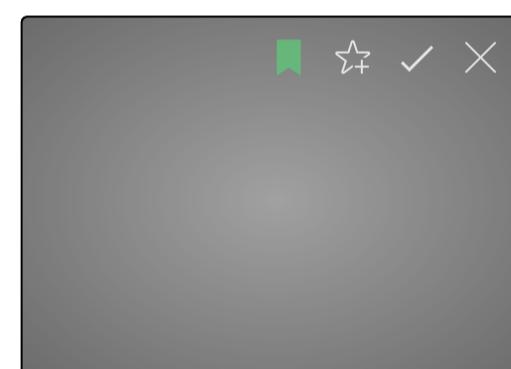
1 ♦ Phys. Chem. Chem. Phys. / by Bruno C. Borro / 3mo
Phys. Chem. Chem. Phys., 2017, 19, 27930-27934 DOI : 10.1039/C7CP05339H, Communication Bruno C. Borro, Lucia



Self-Assembly of Block Copolymer Chains To Promote the Dispersion of Nanoparticles in Polymer Nanocomposites

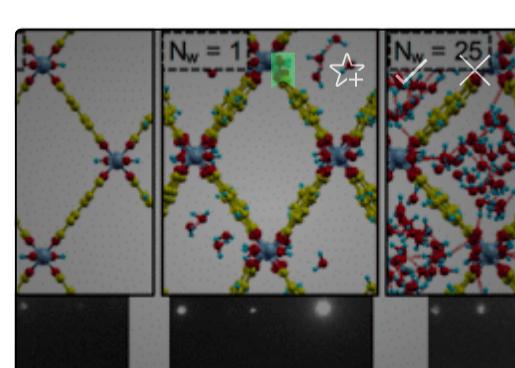
1 ♦ JPCB / by Jun Liu, Zixuan Wang, Zhiyu Zhang, Jianxiang Shen, Yulong Chen, Zijian Zheng, Liqun Zhang and Alexey V. Lyulin / 3mo

The Journal of Physical Chemistry B DOI:
10.1021/acs.jpcb.7b08670



Comparison of Physicochemical Membrane Properties of Vesicles Modified with Guanidinium Derivatives

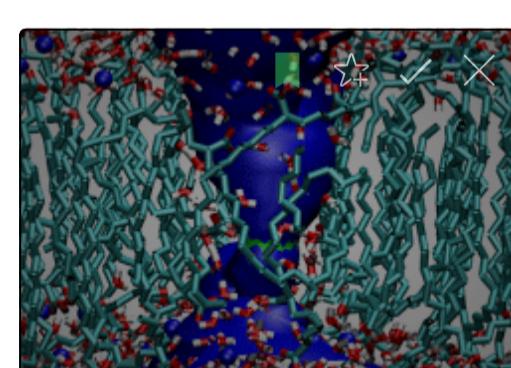
1 ♦ JPCB / by Nozomi Watanabe, Keishi Suga and Hiroshi Umakoshi / 3mo
The Journal of Physical Chemistry B DOI:
10.1021/acs.jpcb.7b04007



Pore Breathing of Metal-Organic Frameworks by Environmental Transmission Electron Microscopy

1 ♦ JACS / by Lucas R. Parent, C. Huy Pham, Joseph P. Patterson, Michael S. Denny, Seth M. Cohen, Nathan C. Gianneschi and Francesco Paesani / 3mo

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b06585



Proton Diffusion through Bilayer Pores

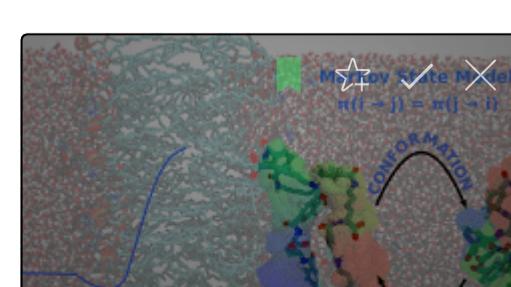
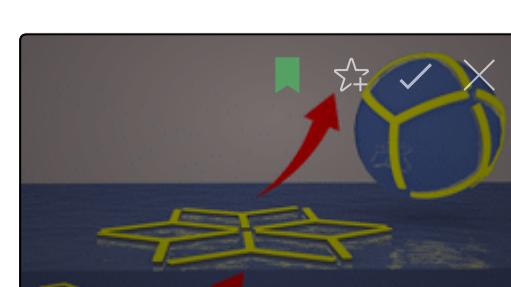
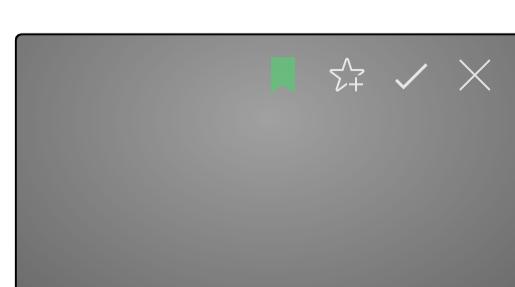
1 ♦ JPCB / by Jesse G. McDaniel and Arun Yethiraj / 3mo
The Journal of Physical Chemistry B DOI:
10.1021/acs.jpcb.7b07780



Considerations for Safe Innovation: The Case of Graphene

4 ♦ ACS Nano / by Margriet V.D.Z. Park, Eric A.J. Bleeker, Walter Brand, Flemming R. Cassee, Merel van Elk, Ilse Gossens, Wim H. de Jong, Johannes A.J. Meesters, Willie J.G.M. Peijnenburg, Joris T.K. Quik, Rob J. Vandebriel and Adriënne J.A.M. Sips / 3mo

ACS Nano DOI: 10.1021/acsnano.7b04120





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Stress Propagation through Biological Lipid Bilayers in Silico

1 JACS / by Camilo Aponte-Santamaría, Jan Brunkens and Frauke Gräter / 3mo
Journal of the American Chemical Society
DOI: 10.1021/jacs.7b04724

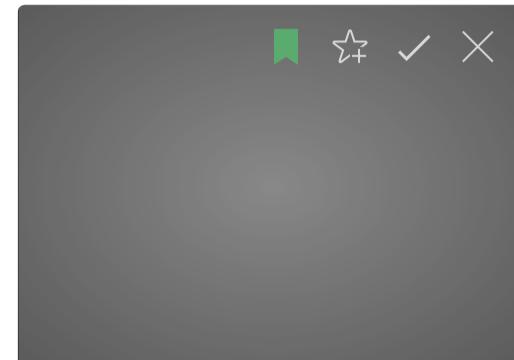
Self-Assembly of Mesoscale Artificial Clathrin Mimics

1 ACS Nano / by Yifan Kong, Mina-Elaheb S. Hanna, Denys Zhuo, Katherine G. Chang, Tara Bozorg-Grayeli and Nicholas A. Melosh / 3mo

ACS Nano DOI: 10.1021/acsnano.7b03739

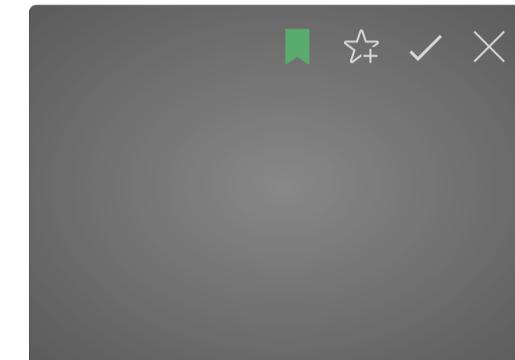
Simulation Studies on the Lipid Interaction and Conformation of Novel Drug-Delivery Pseudopeptidic Polymers

1 JPCB / by Shuzhe Wang and Fernando Bresme / 3mo
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b06562



Phase separation and cellular organization

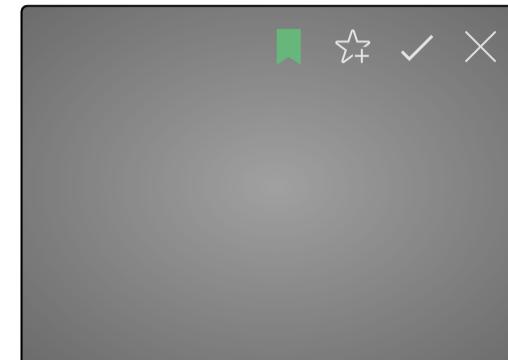
1 Science / by Ray, L. B. / 3mo



Liquid phase condensation in cell physiology and disease

17 Science / by Shin, Y., Brangwynne, C. P. / 3mo

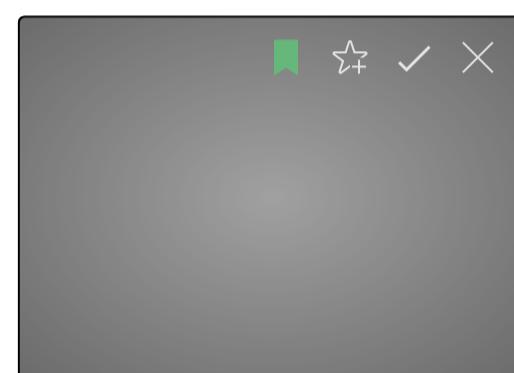
Phase transitions are ubiquitous in nonliving matter, and recent discoveries have shown that they also play a key role within living



Multiscale Modeling of the HKUST-1/Poly(vinyl alcohol) Interface: From an Atomistic to a Coarse Graining Approach

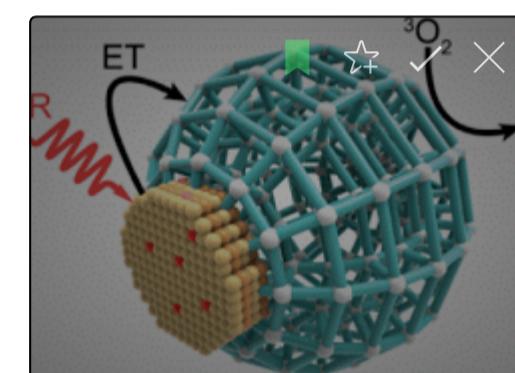
1 JPCC / by Rocío Semino, Johannes P. Dürholt, Rochus Schmid and Guillaume Maurin / 3mo

The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b07090



Transmembrane Pore Structures of β-Hairpin Antimicrobial Peptides by All-Atom Simulations

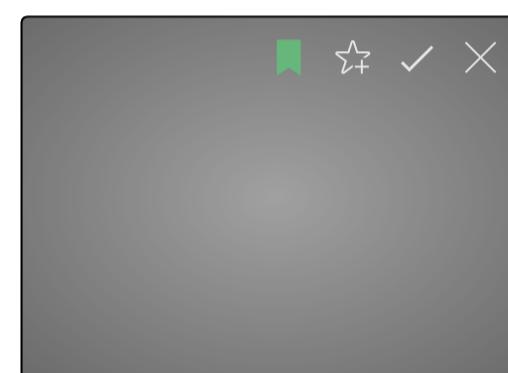
1 JPCB / by Richard Lipkin, Almudena Pino-Angeles and Themis Lazaridis / 3mo
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b06591



Heterodimers Made of Upconversion Nanoparticles and Metal–Organic Frameworks

1 JACS / by Yifan Li, Zhenghan Di, Jinhong Gao, Ping Cheng, Chunzhi Di, Ge Zhang, Bei Liu, Xinghua Shi, Ling-Dong Sun, Lele Li and Chun-Hua Yan / 3mo

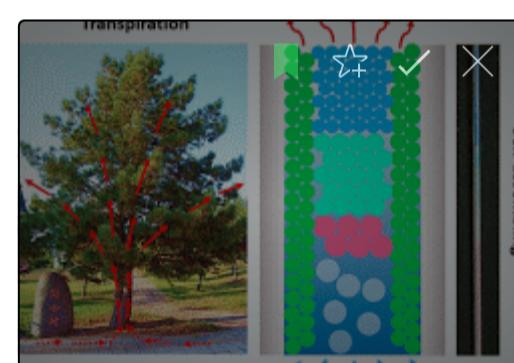
Journal of the American Chemical Society DOI: 10.1021/jacs.7b07302



Graphene–Titanium Interfaces from Molecular Dynamics Simulations

17 ACS Applied Materials & Interfaces / by Alexandre F. Fonseca, Tao Liang, Difan Zhang, Kamal Choudhary, Simon R. Phillpot and Susan B. Sinnott / 3mo

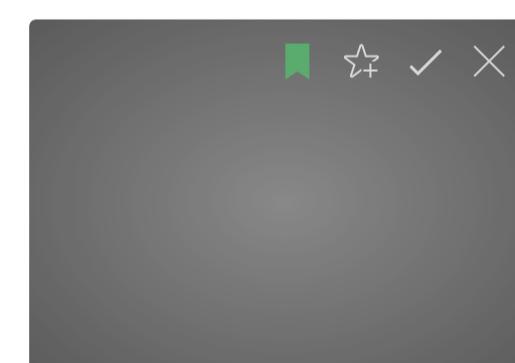
ACS Applied Materials & Interfaces DOI: 10.1021/acsami.7b09469



Transpiration-Inspired Fabrication of Opal Capillary with Multiple Heterostructures for Multiplex Aptamer-Based Fluorescent Assays

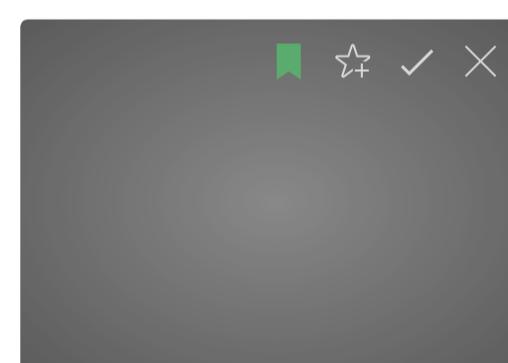
1 ACS Applied Materials & Interfaces / by Bingbing Gao, Litianyi Tang, Dagan Zhang, Zhuoying Xie, Enben Su, Hong Liu and Zhongze Gu / 3mo

ACS Applied Materials & Interfaces DOI: 10.1021/acsami.7b10143



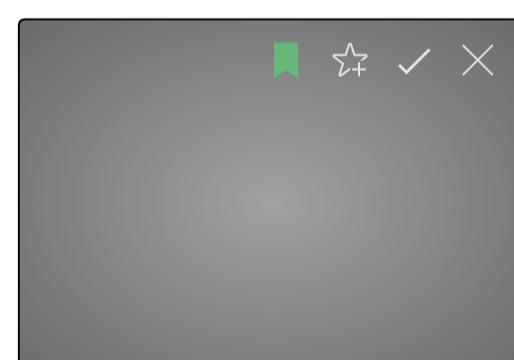
Nanotechnology: A molecular assembler

50 Nature / by T. Ross Kelly / 3mo
Nature: Nanotechnology: A molecular assembler
Nature 549, 7672 (2017).
doi:10.1038/549336a Authors: T. Ross Kelly



Realizing the classical XY Hamiltonian in polariton simulators

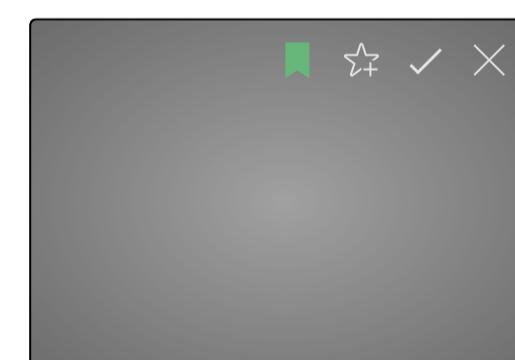
2 Nature Materials / by Natalia G. Berloff / 3mo
Nature Materials. doi:10.1038/nmat4971
Authors: Natalia G. Berloff, Matteo Silva, Kirill Kalinin, Alexis Askitopoulos, Julian D.



Simulating Bilayers of Nonionic Surfactants with the GROMOS-Compatible 2016H66 Force Field

1 Langmuir / by Caroline Senac, Vladimir Urbach, Erol Kurtisovski, Philippe H. Hünenberger, Bruno A. C. Horta, Nicolas Taulier and Patrick F. J. Fuchs / 3mo

Langmuir DOI:
10.1021/acs.langmuir.7b01348

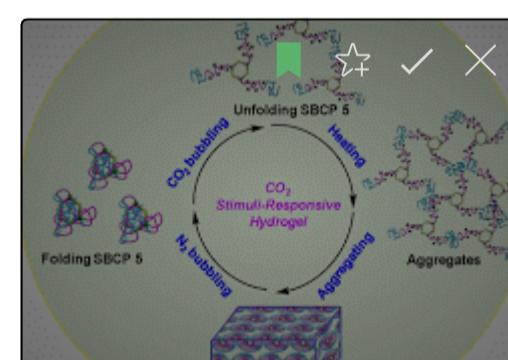


Molecular Dynamics Simulation of Water Nanodroplet Bounce Back from Flat and Nanopillared Surface

1 Langmuir / by Takahiro Koishi, Kenji Yasuoka and Xiao Cheng Zeng / 3mo

Langmuir DOI:

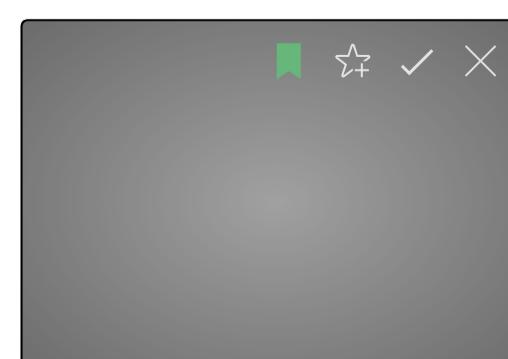
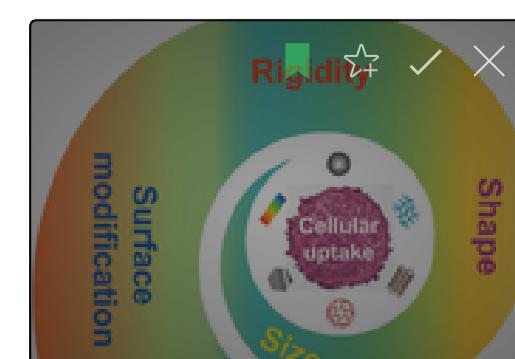
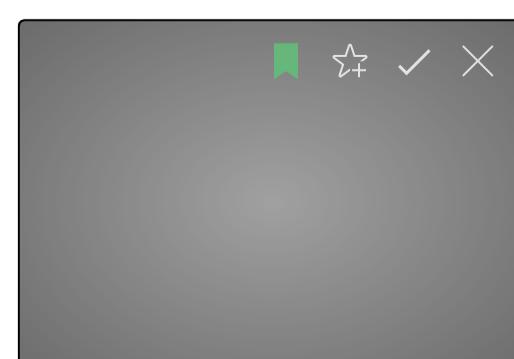
10.1021/acs.langmuir.7b02149



CO2 Stimuli-Responsive, Injectable Block Copolymer Hydrogels Cross-Linked by Discrete Organoplatinum(II) Metallacycles via Stepwise Post-Assembly Polymerization

1 JACS / by Wei Zheng, Guang Yang, Nannan Shao, Li-Jun Chen, Bo Ou, Shu-Ting Jiang, Guosong Chen and Hai-Bo Yang / 3mo

Journal of the American Chemical Society DOI: 10.1021/jacs.7b07303





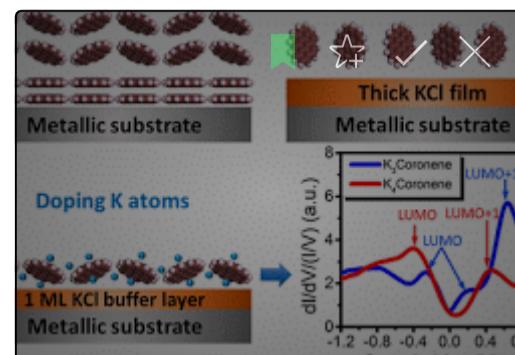
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1 JACS / by Xiao Zhou, Xiaoye Su, Pravin Pathak, Ryan Vik, Brittany Vinciguerra, Lyle Isaacs and Janarthanan Jayawickramarajah / 3mo

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b07977

**Growth Behavior of Pristine and Potassium Doped Coronene Thin Films on Substrates with Tuned Coupling Strength**

1 JPCB / by Chaoqiang Xu, Yande Que, Yuan Zhuang, Zhijun Lin, Xuefeng Wu, Kedong Wang and Xudong Xiao / 3mo

The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b05140

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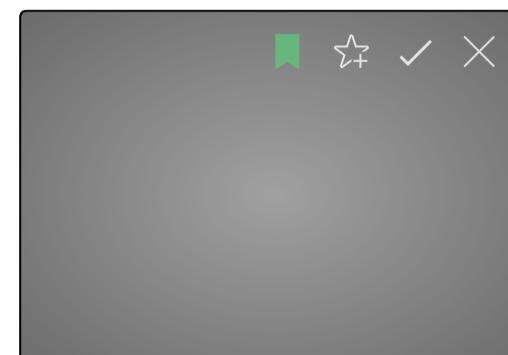
1 Small / by Ye Liu, Bereket Workalemahu, Xingyu Jiang / 3mo

Abstract Understanding the cellular uptake of nanomaterials (NMs) is a fundamental and critical issue for uncovering biomedical

for a Rapid Crossing Cell Membrane

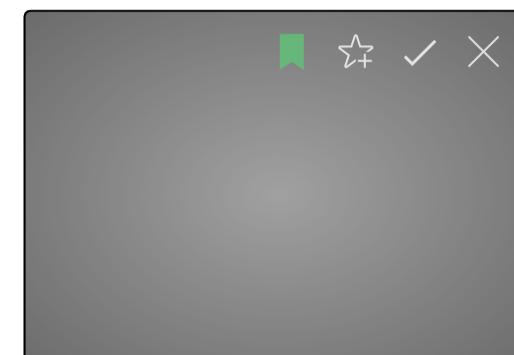
1 Langmuir / by Jing Chen, Xiang Zhang, Ye Zhang, Wei Wang, Shuya Li, Yucai Wang, Mengye Hu, Li Liu and Hong Bi / 3mo

Langmuir DOI: 10.1021/acs.langmuir.7b01992

**Supramolecular Motors on Graphite Surface Stabilized by Charge States and Hydrogen Bonds**

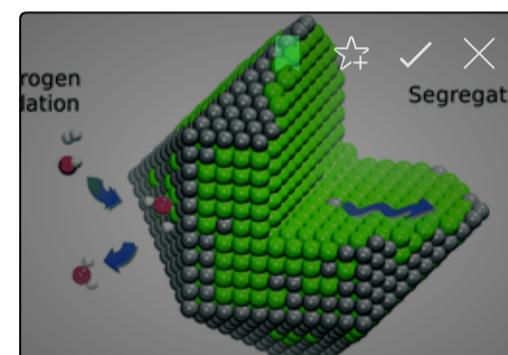
1 ACS Nano / by Kai Sun, Ji-Yong Luo, Xin Zhang, Zhi-Jian Wu, Ying Wang, Hong-Kuan Yuan, Zu-Hong Xiong, Shao-Chun Li, Qi-Kun Xue and Jun-Zhong Wang / 3mo

ACS Nano DOI: 10.1021/acsnano.7b04811

**Bridging Bio–Nano Science and Cancer Nanomedicine**

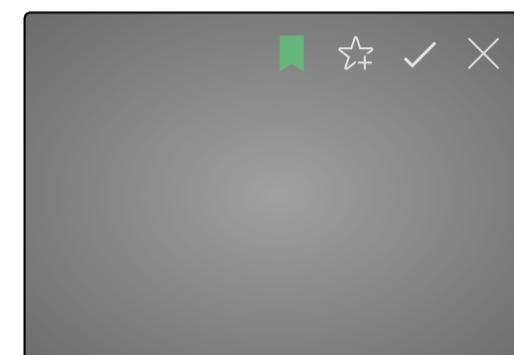
1 ACS Nano / by Mattias Björnalm, Kristofer J. Thurecht, Michael Michael, Andrew M. Scott and Frank Caruso / 3mo

ACS Nano DOI: 10.1021/acsnano.7b04855

**Partial breaking of the Coulombic ordering of ionic liquids confined in carbon nanopores**

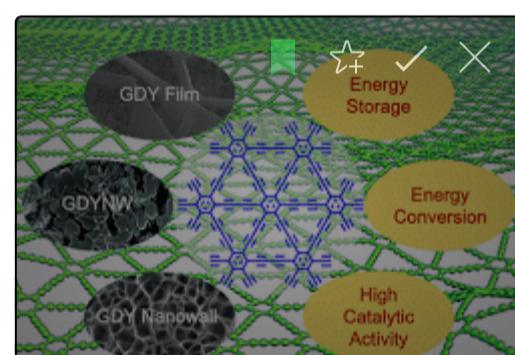
1 Nature Materials / by Ryusuke Futamura / 3mo

Nature Materials, doi:10.1038/nmat4974
Authors: Ryusuke Futamura, Taku Iiyama, Yuma Takasaki, Yury Gogotsi, Mark J. Biggs,

**Understanding the structure and reactivity of NiCu nanoparticles: an atomistic model**

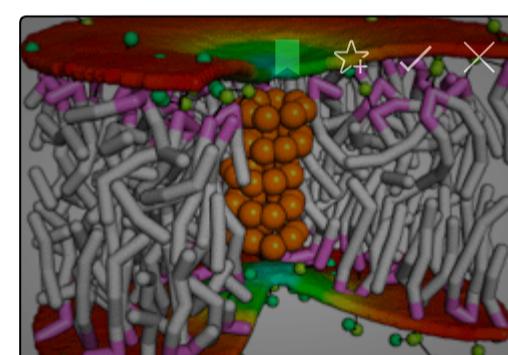
1 Phys. Chem. Chem. Phys. / by P. Quaino / 3mo

Phys. Chem. Chem. Phys., 2017, 19, 26812-26820 DOI : 10.1039/C7CP04641C, Paper P. Quaino, G. Belletti, S. A. Shermukhamedov,

**Synthesis and Properties of 2D Carbon Graphdiyne**

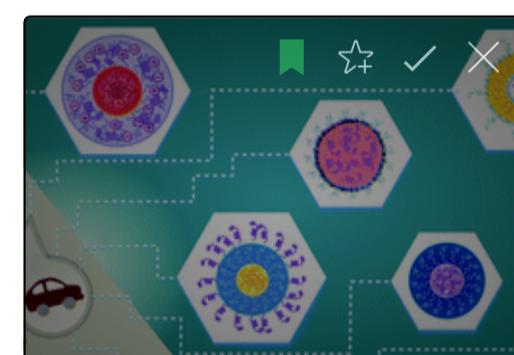
1 Accounts of Chemical Research / by Zhiyu Jia, Yongjun Li, Zicheng Zuo, Huibiao Liu, Changshui Huang and Yuliang Li / 3mo

Accounts of Chemical Research DOI: 10.1021/acs.accounts.7b00205

**Insight of Transmembrane Processes of Self-Assembling Nanotubes Based on a Cyclic Peptide Using Coarse Grained Molecular Dynamics Simulation**

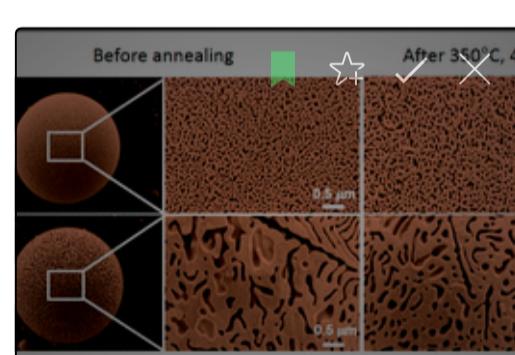
1 JPCB / by Yankai Fu, Tingxuan Yan and Xia Xu / 4mo

The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b05948

**Molecular engineering solutions for therapeutic peptide delivery**

2 Chem. Soc. Rev. / by Handan Acar / 4mo

Chem. Soc. Rev., 2017, 46, 6553-6569 DOI : 10.1039/C7CS00536A, Review Article Handan Acar, Jeffrey M. Ting, Samanvaya

**Pore and ligament size control, thermal stability and mechanical properties of nanoporous single crystals of gold**

1 Nanoscale / by Maria Koifman Khristosov / 4mo

Nanoscale , 2017, 9, 14458-14466 DOI : 10.1039/C7NR04004K, Paper Maria Koifman Khristosov, Shiri Dishon, Imrit Noi,

**Nano- and micromotors for cleaning polluted waters: focused review on pollutant removal mechanisms**

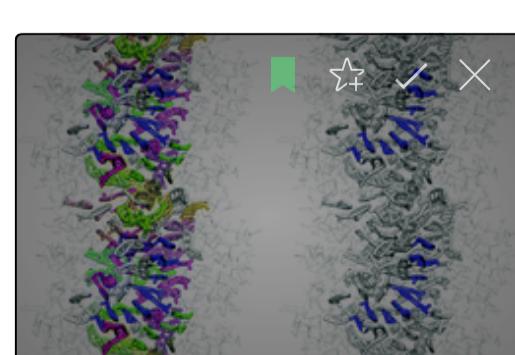
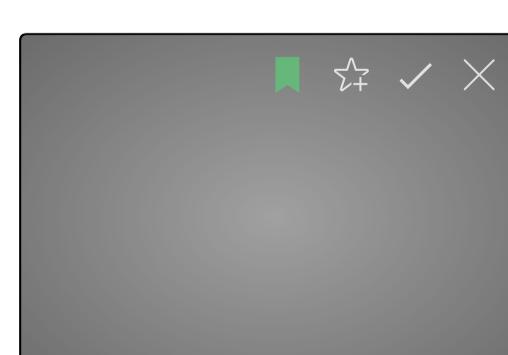
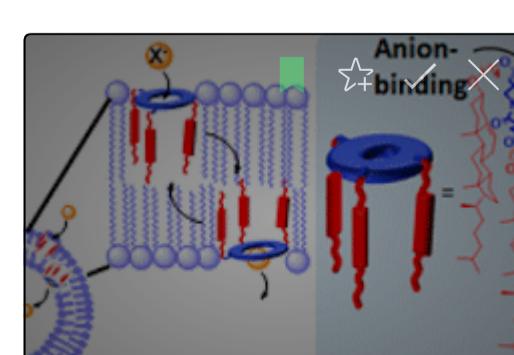
1 Nanoscale / by Hamed Eskandarloo / 4mo

Nanoscale , 2017, 9, 13850-13863 DOI : 10.1039/C7NR05494G, Review Article Hamed Eskandarloo, Arkaye Kierulf, Alireza

**Multifunctional Bacteria-Driven Microswimmers for Targeted Active Drug Delivery**

1 ACS Nano / by Byung-Wook Park, Jiang Zhuang, Oncay Yasa and Metin Sitti / 4mo

ACS Nano DOI: 10.1021/acsnano.7b03207

**Coarse-grained molecular dynamics studies of the structure and stability of peptide-based drug amphiphile filaments****Interplay Between Membrane Composition and Structural Stability of Membrane-Bound hIAPP****Anion-Selective Cholesterol Decorated Macroyclic Transmembrane Ion Carriers**



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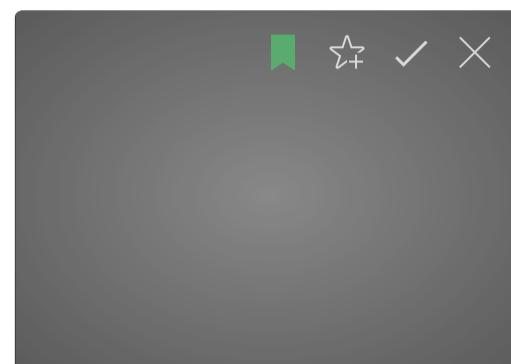
Kang, Honggang Cui, Sharon M. Loverde

10.1021/acs.jpcb.7b05689

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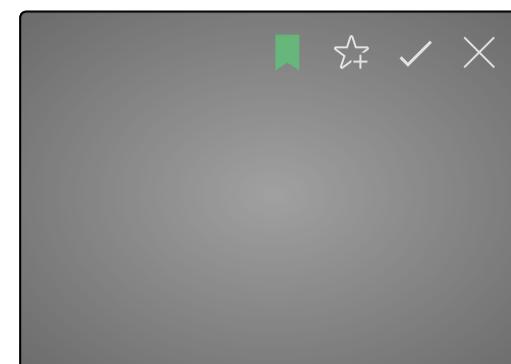


DOI: 10.1021/jacs.7b07479

**Quantum simulations with ultracold atoms in optical lattices**

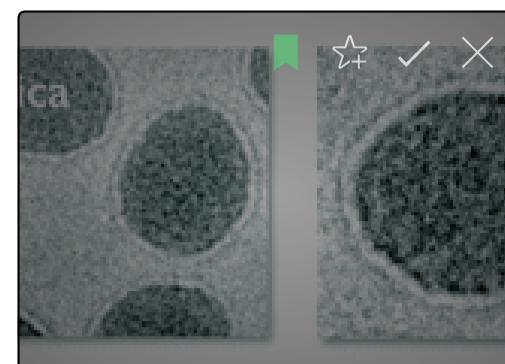
1 h Science / by Gross, C., Bloch, I. / 4mo

Quantum simulation, a subdiscipline of quantum computation, can provide valuable insight into difficult quantum problems in

**Formation and Characterization of Dendritic Interfacial Electrodes inside an Ionomer**

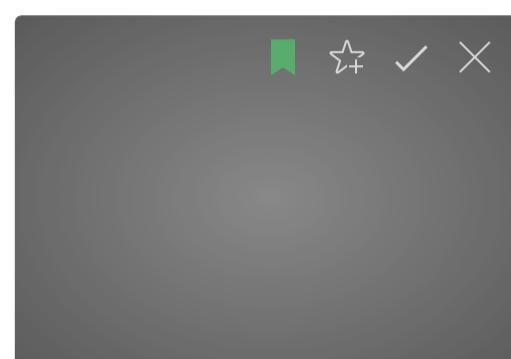
1 h ACS Applied Materials & Interfaces / by Yanjie Wang, Jiayu Liu, Yetao Zhu, Denglin Zhu and Hualing Chen / 4mo

ACS Applied Materials & Interfaces DOI: 10.1021/acsmi.7b08012

**Supported pulmonary surfactant bilayers on silica nanoparticles: formulation, stability and impact on lung epithelial cells**

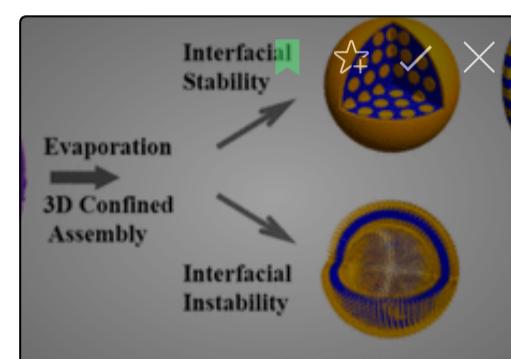
1 h Nanoscale / by F. Mousseau / 4mo

Nanoscale, 2017, 9, 14967-14978 DOI: 10.1039/C7NR04574C, Paper F. Mousseau, C. Puisney, S. Mornet, R. Le Borgne, A.

**Microparticle Assembly Pathways on Lipid Membranes**

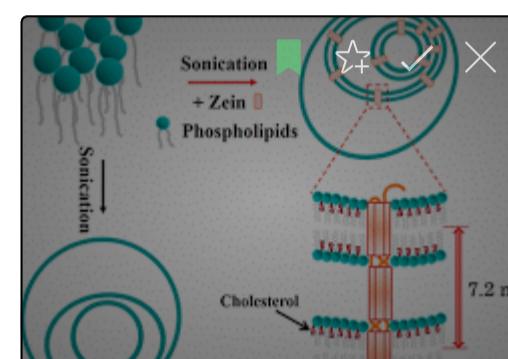
1 h Biophysical Journal / 4mo

Publication date: Source: Biophysical Journal, Volume 113, Issue 5 Author(s): Casper van der Wel, Doris Heinrich, Daniela

**Emulsion Solvent Evaporation-Induced Self-Assembly of Block Copolymers Containing pH-Sensitive Block**

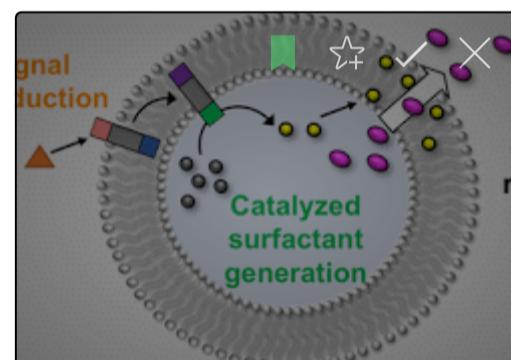
1 h Langmuir / by Yuqing Wu, Ke Wang, Haiying Tan, Jiangping Xu and Jintao Zhu / 4mo

Langmuir DOI: 10.1021/acs.langmuir.7b02330

**Formation of a Mimetic Biomembrane from the Hydrophobic Protein Zein and Phospholipids: Structure and Application**

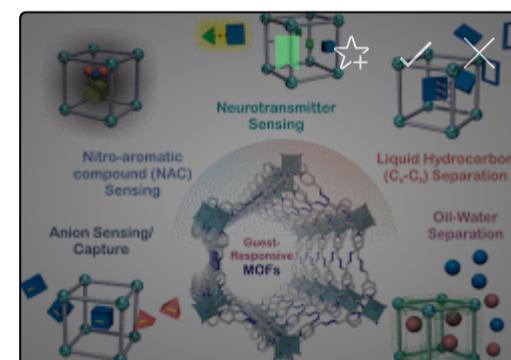
1 h JPCC / by Liping Wang, Toshiaaki Gotoh, Yuzhu Wang, Tsutomu Kouryama and Jin-Ye Wang / 4mo

The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b04573

**Triggered Release from Lipid Bilayer Vesicles by an Artificial Transmembrane Signal Transduction System**

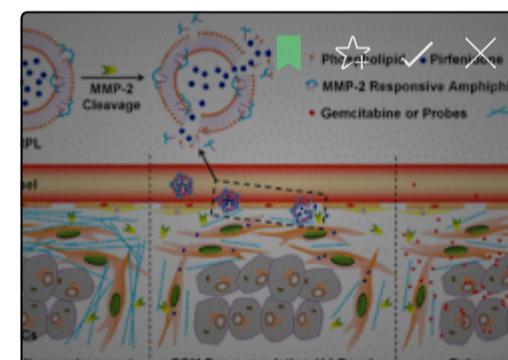
1 h JACS / by Matthew J. Langton, Lorel M. Scriven, Nicholas H. Williams and Christopher A. Hunter / 4mo

Journal of the American Chemical Society DOI: 10.1021/jacs.7b07747

**Guest-Responsive Metal-Organic Frameworks as Scaffolds for Separation and Sensing Applications**

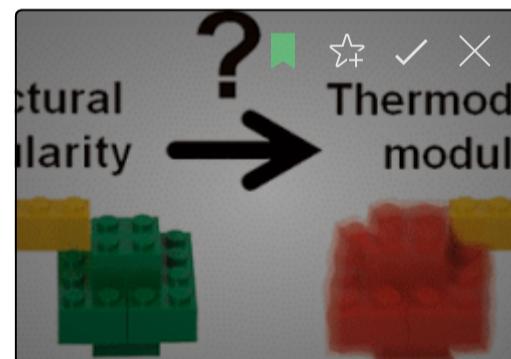
1 h Accounts of Chemical Research / by Avishek Karmakar, Partha Samanta, Aamod V. Desai and Sujit K. Ghosh / 4mo

Accounts of Chemical Research DOI: 10.1021/acs.accounts.7b00151

**Designing Liposomes To Suppress Extracellular Matrix Expression To Enhance Drug Penetration and Pancreatic Tumor Therapy**

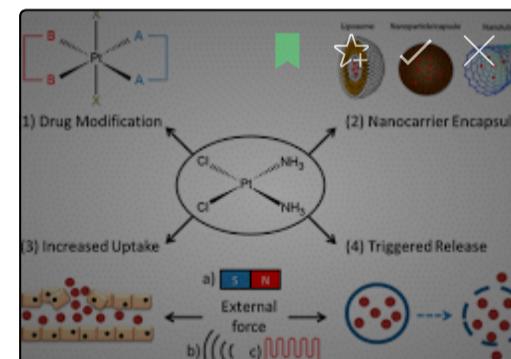
1 h ACS Nano / by Tianjiao Ji, Jiayan Lang, Jing Wang, Rong Cai, Yinlong Zhang, Feifei Qi, Lijing Zhang, Xiao Zhao, Wenjing Wu, Jihui Hao, Zhihai Qin, Ying Zhao and Guangjun Nie / 4mo

ACS Nano DOI: 10.1021/acsnano.7b01026

**Protein Assembly and Building Blocks: Beyond the Limits of the LEGO Brick Metaphor**

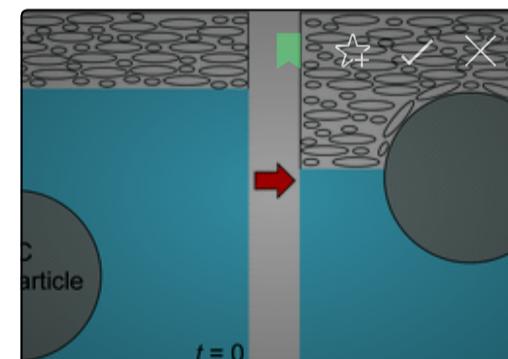
1 h Biochemistry / by Yaakov Levy / 4mo

Biochemistry DOI: 10.1021/acs.biochem.7b00666

**Drug Delivery Strategies for Platinum-Based Chemotherapy**

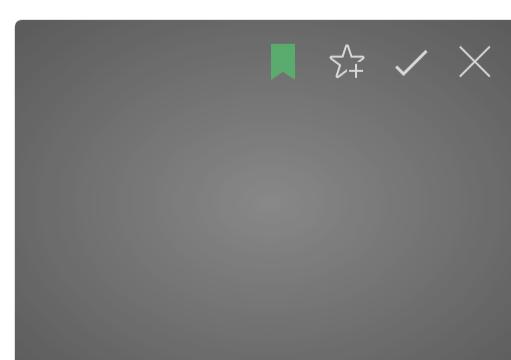
1 h ACS Nano / by Richard J. Browning, Philip James Thomas Reardon, Maryam Parhizkar, R. Barbara Pedley, Mohan Edirisinghe, Jonathan C. Knowles and Eleanor Stride / 4mo

ACS Nano DOI: 10.1021/acsnano.7b04092

**Dynamics of ethyl cellulose nanoparticle self-assembly at the interface of a nematic liquid crystal droplet**

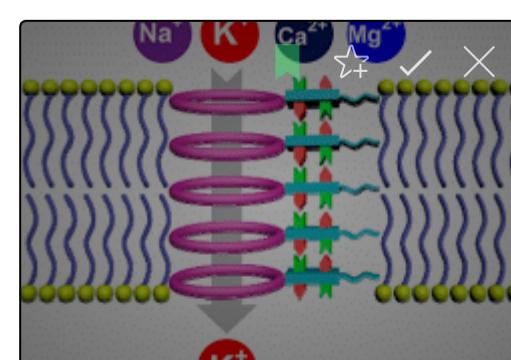
1 h Phys. Chem. Chem. Phys. / by Yining Han / 4mo

Phys. Chem. Chem. Phys., 2017, 19, 24955-24960 DOI: 10.1039/C7CP04421F, Paper Yining Han, Navid Bizmark, Nasser

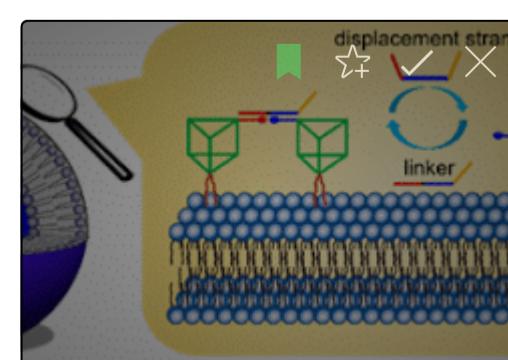
**Molecular machines open cell membranes**

100+ h Nature / by Victor Garcia-López / 4mo

Molecular machines open cell membranes Nature 548, 7669 (2017). doi:10.1038/nature23657 Authors: Victor

**Combinatorial Evolution of Fast-Conducting Highly Selective K⁺-Channels via Modularly Tunable Directional Assembly of Crown Ethers**

1 h JACS / by Changliang Ren, Jie Shen and Huaiqiang Zeng / 4mo

**Facile Assembly/Disassembly of DNA Nanostructures Anchored on Cell-Mimicking Giant Vesicles**

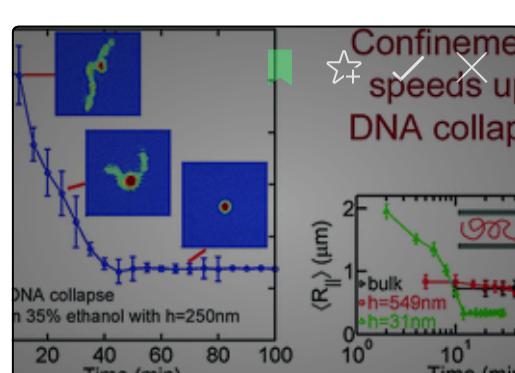
1 h JACS / by Ruizi Peng, Huijing Wang, Yifan Lyu, Liujun Xu, Hui Liu, Hailan Kuai, Qiaoling Liu and Weihong Tan / 4mo

Journal of the American Chemical Society DOI: 10.1021/jacs.7b07485



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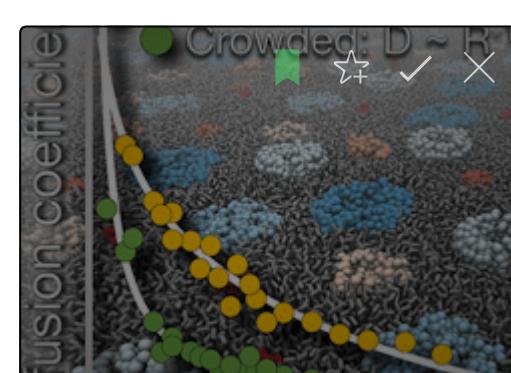
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Nanoconfinement greatly speeds up the nucleation and the annealing in single-DNA collapse

1 🔍 Soft Matter / by Liang Dai / 4mo

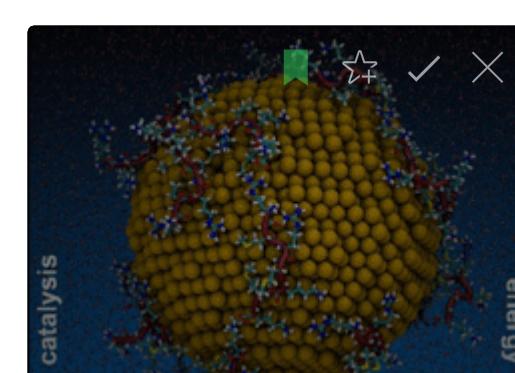
Soft Matter , 2017, 13 ,6363-6371 DOI : 10.1039/C7SM01249G, Paper Liang Dai, Jeremy J. Jones, Alexander R. Klotz, Stephen



Diffusion of Integral Membrane Proteins in Protein-Rich Membranes

1 🔍 JPCL / by Matti Javanainen, Hector Martinez-Seara, Ralf Metzler and Ilpo Vattulainen / 4mo

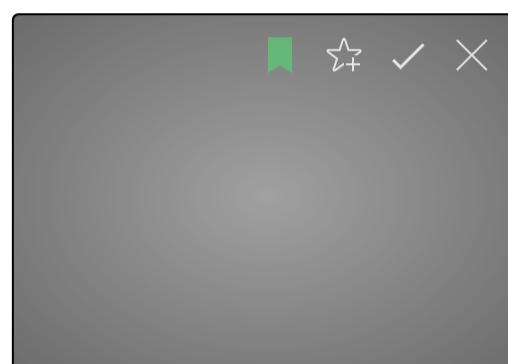
The Journal of Physical Chemistry Letters DOI: 10.1021/acs.jpclett.7b01758



Biointerface Structural Effects on the Properties and Applications of Bioinspired Peptide-Based Nanomaterials

1 🔍 Chemical Reviews / by Tiffany R. Walsh and Marc R. Knecht / 4mo

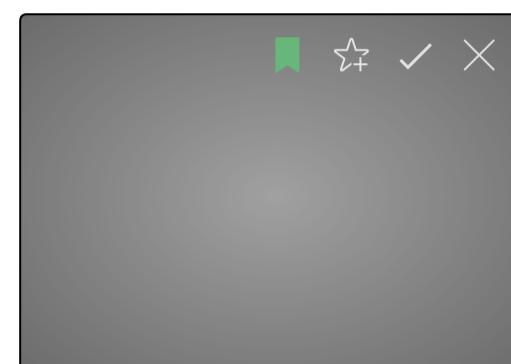
Chemical Reviews DOI: 10.1021/acs.chemrev.7b00139



Influence of Small Fluorophilic and Lipophilic Organic Molecules on Dipalmitoylphosphatidylcholine Bilayers

1 🔍 JPCB / by Martin Brehm, Ghulam Saddiq, Tobias Watermann and Daniel Sebastiani / 4mo

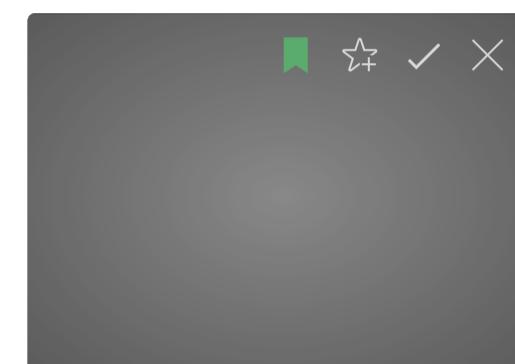
The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b06520



Pressing Carbon Nanotubes Triggers Better Ion Selectivity

1 🔍 JPCC / by Lijun Liang, Zhiwei Zhang, Jia-Wei Shen and Xiang-Yang Liu / 4mo

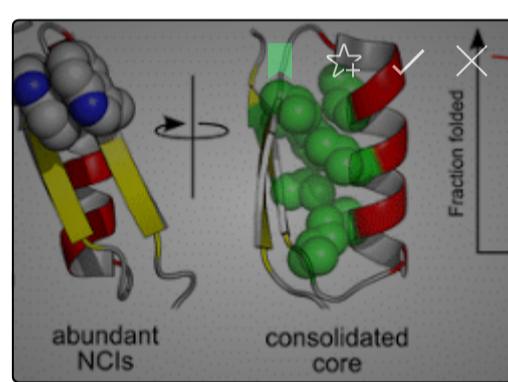
The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b06637



Spontaneous Membrane Translocating Peptides: The Role of Leucine-Arginine Consensus Motifs

1 🔍 Biophysical Journal / 4mo

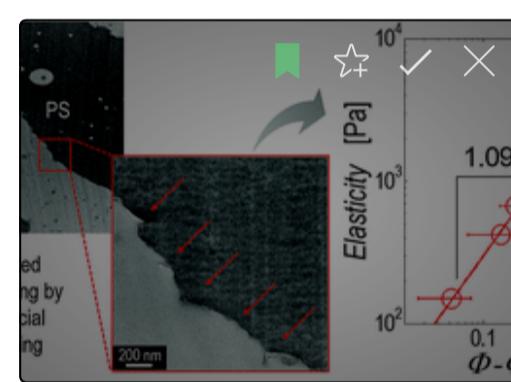
Publication date: Source: Biophysical Journal, Volume 113, Issue 4 Author(s): Taylor Fuselier, William C. Wimley



Miniprotein Design: Past, Present, and Prospects

2 🔍 Accounts of Chemical Research / by Emily G. Baker, Gail J. Barlett, Kathryn L. Porter Goff and Derek N. Woolfson / 4mo

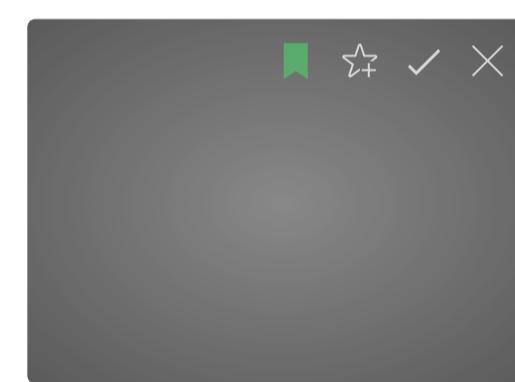
Accounts of Chemical Research DOI: 10.1021/acs.accounts.7b00186



Interfacial crowding of nanoplatelets in co-continuous polymer blends: assembly, elasticity and structure of the interfacial nanoparticle network

1 🔍 Soft Matter / by R. Altobelli / 4mo

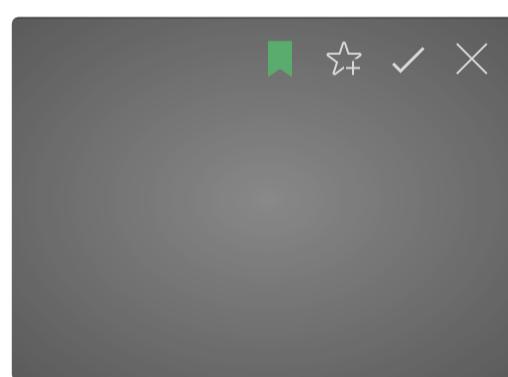
Soft Matter , 2017, 13 ,6465-6473 DOI : 10.1039/C7SM01119A, Paper R. Altobelli, M. Salzano de Luna, G. Filippone The



Mechanism of ion adsorption to aqueous interfaces: Graphene/water vs. air/water [Chemistry]

1 🔍 PNAS / by Debra L. McCaffrey, Son C. Nguyen, Stephen J. Cox, Horst Weller, A. Paul Alivisatos, Phillip L. Geissler, Richard J. Saykally / 4mo

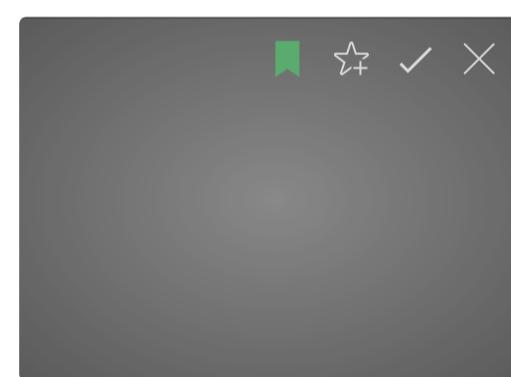
The adsorption of ions to aqueous interfaces is a phenomenon that profoundly influences vital processes in many areas of science,



Superballistic flow of viscous electron fluid through graphene constrictions

31 🔍 Nature Physics / by R. Krishna Kumar / 4mo

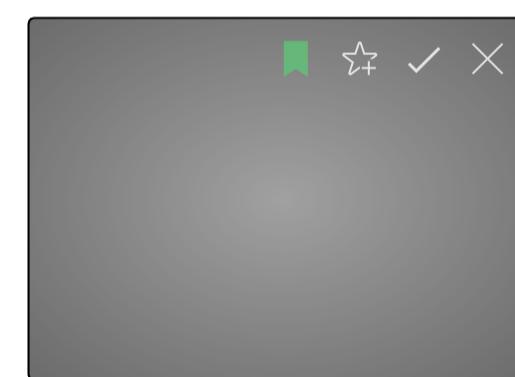
Nature Physics. doi:10.1038/nphys4240 Authors: R. Krishna Kumar, D. A. Bandurin, F. M. D. Pellegrino, Y. Cao, A. Principi, H.



Nanodiffusion in electrocatalytic films

1 🔍 Nature Materials / by Cyrille Costentin / 4mo

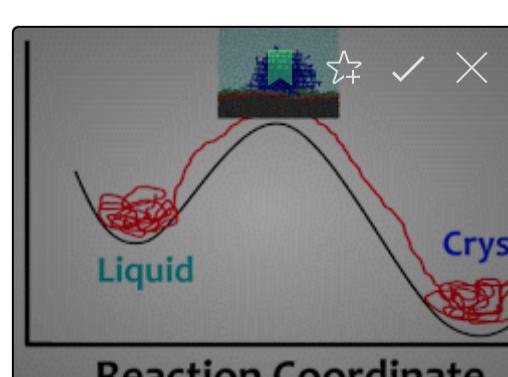
Nature Materials. doi:10.1038/nmat4968 Authors: Cyrille Costentin, Carlo Di Giovanni, Marion Giraud, Jean-Michel



Controllable Location of Inorganic Nanoparticles on Block Copolymer Self-Assembled Scaffolds by Tailoring the Entropy and Enthalpy Contributions

1 🔍 Macromolecules / by Nan Yan, Yan Zhang, Yun He, Yutian Zhu and Wei Jiang / 4mo

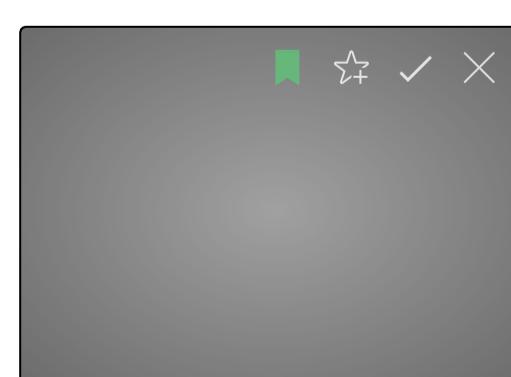
Macromolecules DOI: 10.1021/acs.macromol.7b01076



Reaction Coordinate for Ice Crystallization on a Soft Surface

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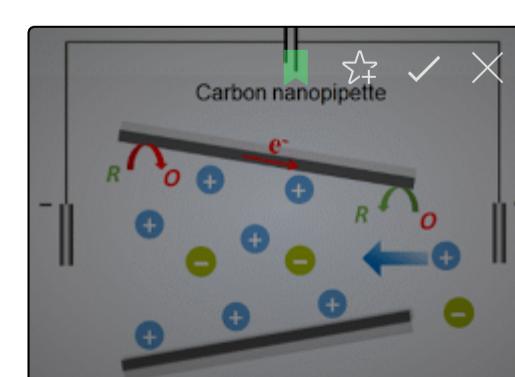
The Journal of Physical Chemistry Letters DOI: 10.1021/acs.jpclett.7b01855



Molecular Dynamics Simulations of Selective Metabolite Transport across the Propanediol Bacterial Microcompartment Shell

1 🔍 JPCB / by Jiyoung Park, Sunny Chun, Thomas A. Bobik, Kendall N. Houk and Todd O. Yeates / 4mo

The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b07232



Electron-Transfer Gated Ion Transport in Carbon Nanotubes

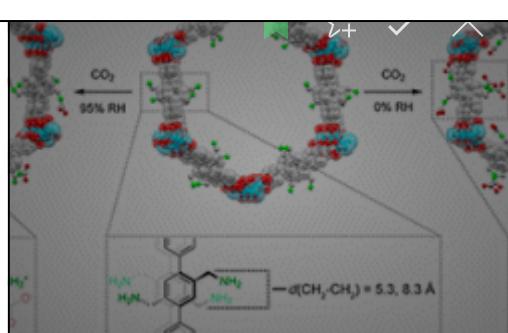
1 🔍 JACS / by Dengchao Wang and Michael V. Mirkin / 4mo

Journal of the American Chemical Society DOI: 10.1021/jacs.7b05058



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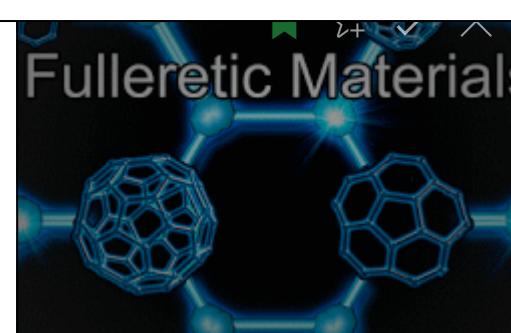
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The Chemistry of CO₂ Capture in an Amine-Functionalized Metal-Organic Framework under Dry and Humid Conditions

2 JACS / by Robinson W. Flaig, Thomas M. Osborn Popp, Alejandro M. Fracaroli, Eugene A. Kapustin, Markus J. Kalmutzki, Rashid M. Altamimi, Farhad Fathieh, Jeffrey A. Reimer and Omar M. Yaghi / 4mo

Journal of the American Chemical Society
DOI: 10.1021/jacs.7b06382



Fulleritic Materials: Buckyball- and Buckybowl-Based Crystalline Frameworks

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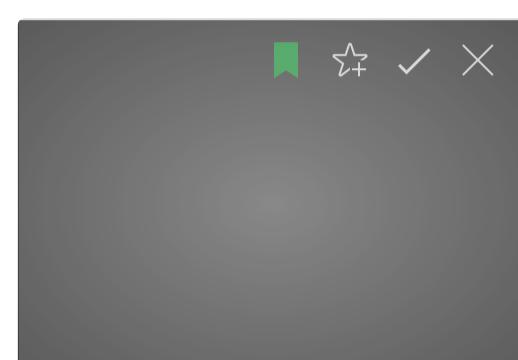
Chemistry of Materials DOI:
10.1021/acs.chemmater.7b02245



Construction of a Polyhedral DNA 12-Arm Junction for Self-Assembly of Wireframe DNA Lattices

1 ACS Nano / by Ilenia Manuguerra, Guido Grossi, Rasmus P. Thomsen, Jeppe Lyngsø, Jan S. Pedersen, Jørgen Kjems, Ebbe S. Andersen and Kurt V. Gothelf / 4mo

ACS Nano DOI: 10.1021/acsnano.7b03538



Soft materials: A remedy for thinning hair

1 Nature Physics / by Mitul Luhar / 4mo

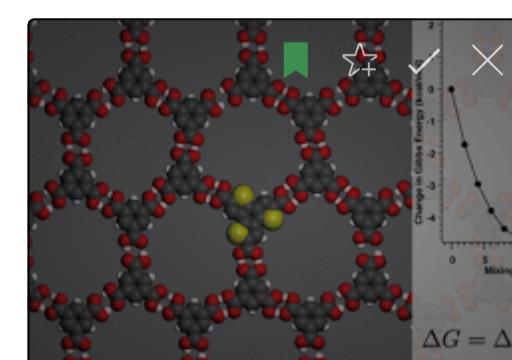
Nature Physics. doi:10.1038/nphys4247
Author: Mitul Luhar Vast beds of 'hair' coat many living systems, and usually exhibit



Universal Janus Filters for the Rapid Separation of Oil from Emulsions Stabilized by Ionic or Nonionic Surfactants

1 Angewandte Chemie International Edition / by Zijie Wang, Morgan Lehtinen, Guojun Liu / 4mo

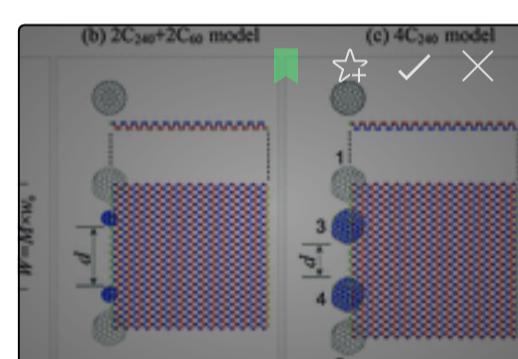
Abstract Existing Janus filters cannot separate oil from emulsions stabilized by nonionic surfactants. Reported herein are



A 2D Substitutional Solid Solution through Hydrogen Bonding of Molecular Building Blocks

1 ACS Nano / by Jennifer M. MacLeod, Josh Lipton-Duffin, Chaoying Fu, Tyler Taeurn, Dmitrii F. Perepichka and Federico Rosei / 4mo

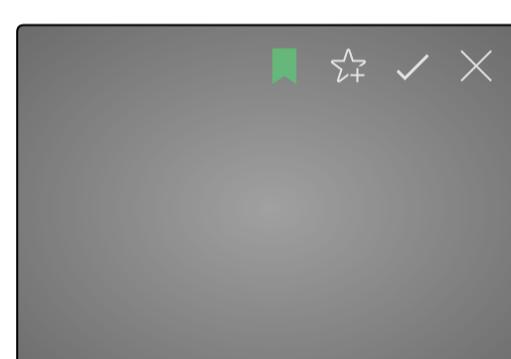
ACS Nano DOI: 10.1021/acsnano.7b03172



Self-assembly of a nanotube from a black phosphorus nanoribbon on a string of fullerenes at low temperature

1 Phys. Chem. Chem. Phys. / by Kun Cai / 5mo

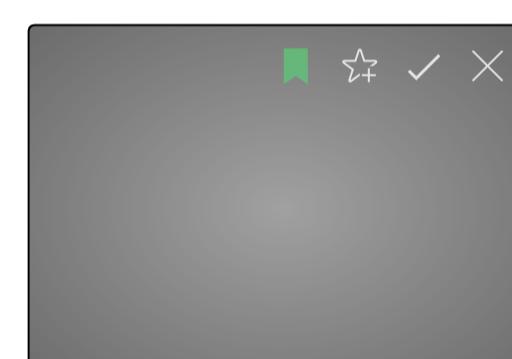
Phys. Chem. Chem. Phys., 2017, 19, 24009-24017 DOI: 10.1039/C7CP04427E, Paper
Kun Cai, Jiao Shi, Ling-Nan Liu, Qing-Hua



Biomimetic Voltage-Gated Ultrasensitive Potassium-Activated Nanofluidic Based on a Solid-State Nanochannel

1 Langmuir / by Kai Wu, Kai Xiao, Lu Chen, Ru Zhou, Bo Niu, Yuqi Zhang and Liping Wen / 4mo

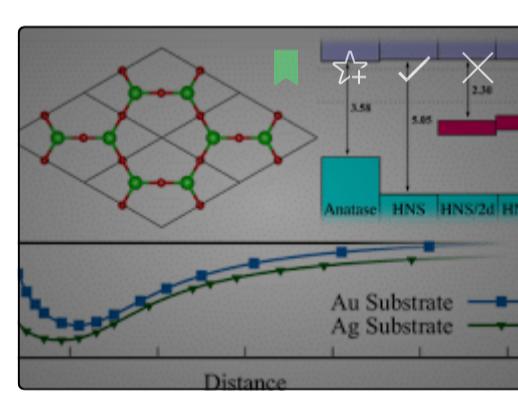
Langmuir DOI:
10.1021/acs.langmuir.7b01705



Molecular Dynamics Modeling of the Encapsulation and De-encapsulation of the Carmustine Anticancer Drug in the Inner Volume of a Carbon Nanotube

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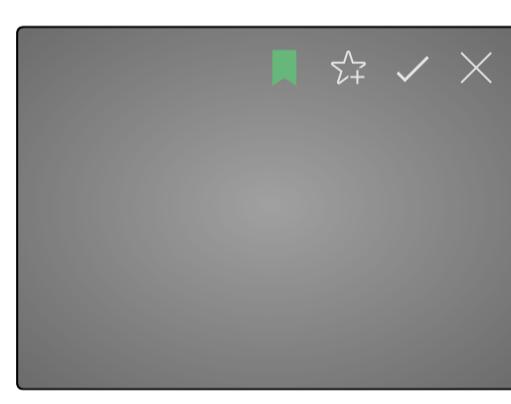
The Journal of Physical Chemistry C DOI:
10.1021/acs.jpcc.7b05229



Two-Dimensional Hexagonal Sheet of TiO₂

2 Chemistry of Materials / by Hossein Asnaashari Eivari, S. Alireza Ghasemi, Hossein Tahmasbi, Samareh Rostami, Somayeh Faraji, Robabé Rasoulkhani, Stefan Goedecker and Maximilian Amsler / 4mo

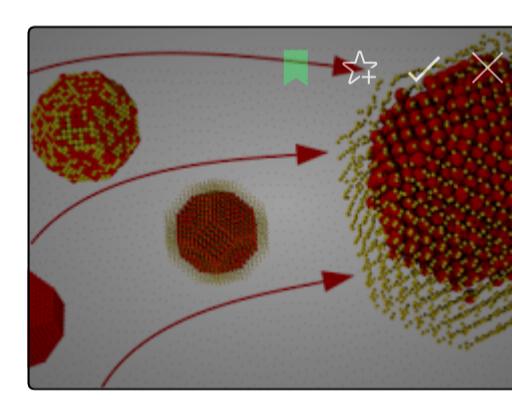
Chemistry of Materials DOI:
10.1021/acs.chemmater.7b02031



Anti-UV Radiation Textiles Designed by Embracing with Nano-MIL (Ti, In)-Metal Organic Framework

1 ACS Applied Materials & Interfaces / by Hossam E. Emam and Reda M. Abdelhameed / 4mo

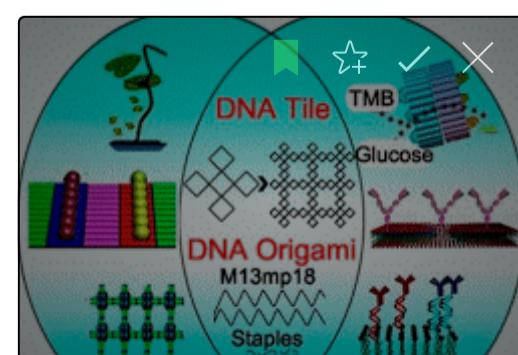
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Nanoscale Effects on Phase Separation

1 Nano Letters / by Juan-Pedro Palomares-Baez, Emanuele Panizzi and Riccardo Ferrando / 4mo

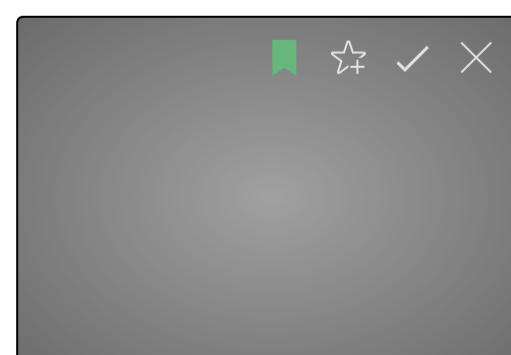
Nano Letters DOI:
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Supramolecular Protein Assemblies Based on DNA Templates

4 JPCL / by Chunxi Hou, Shuwen Guan, Ruidi Wang, Wei Zhang, Fanchao Meng, Linlin Zhao, Jiayun Xu and Junqiu Liu / 5mo

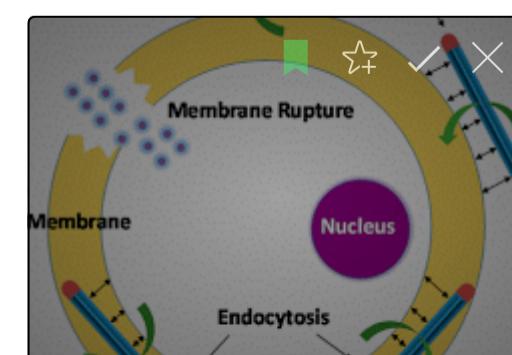
The Journal of Physical Chemistry Letters
DOI: 10.1021/acs.jpclett.7b01564



Theoretical Design of Highly Efficient CO₂/N₂ Separation Membranes Based on Electric Quadrupole Distinction

1 JPCC / by Yuanyuan Qu, Feng Li and Mingwen Zhao / 5mo

The Journal of Physical Chemistry C DOI:
10.1021/acs.jpcc.7b04921



Nanoparticle-Mediated Mechanical Destruction of Cell Membranes: A Coarse-Grained Molecular Dynamics Study

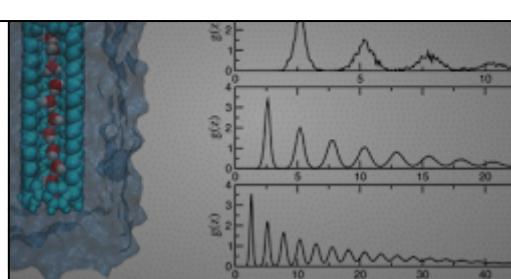
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ACS Applied Materials & Interfaces DOI:
10.1021/acs.applmat.7b05741



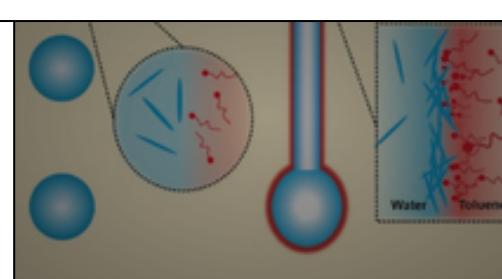
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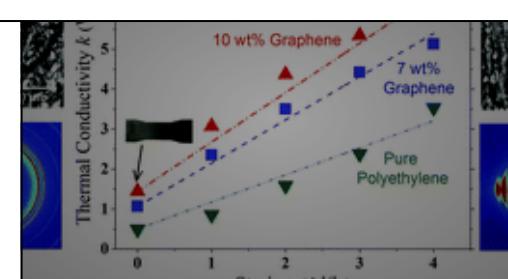
Confined Water: Structure, Dynamics, and Thermodynamics

1 ACS Accounts of Chemical Research / by Sudip Chakraborty, Hemant Kumar, Chandan Dasgupta and Prabal K. Maiti / 4mo
Accounts of Chemical Research DOI: 10.1021/acs.accounts.6b00617



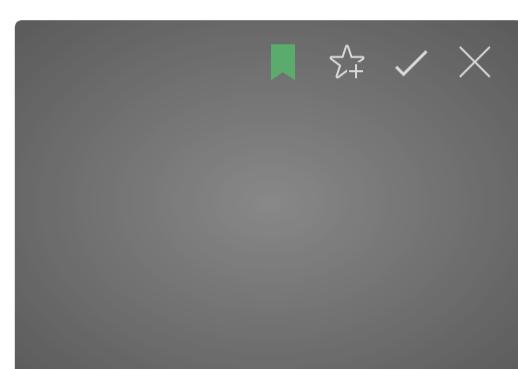
Liquid Tubule Formation and Stabilization Using Cellulose Nanocrystal Surfactants

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Abstract Structured liquids, generated by the interfacial formation, assembly, and jamming of nanoparticle (NP)-surfactants at



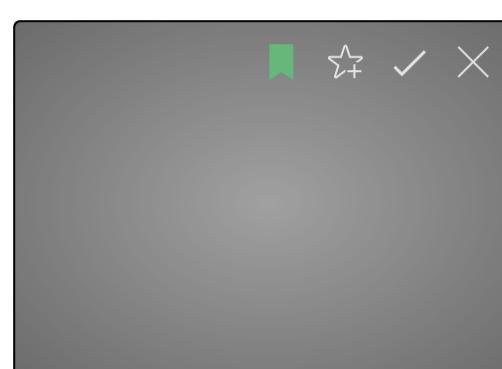
High thermal conductivity through simultaneously aligned polyethylene lamellae and graphene nanoplatelets

1 Nanoscale / by Mortaza Saeidijavash / 5mo
Nanoscale, 2017, 9, 12867-12873 DOI: 10.1039/C7NR04686C, Communication
Mortaza Saeidijavash, Jivtesh Garg, Brian



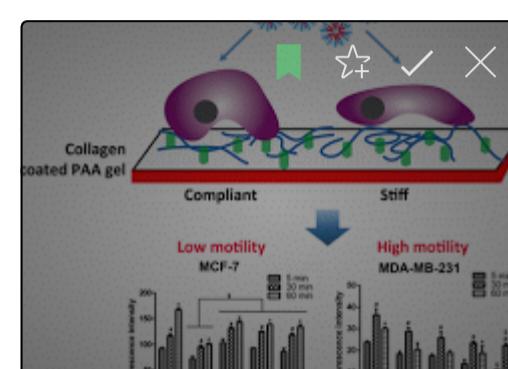
Proteins evolve on the edge of supramolecular self-assembly

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Proteins evolve on the edge of supramolecular self-assembly Nature 548, 7666 (2017). doi:10.1038/nature23320



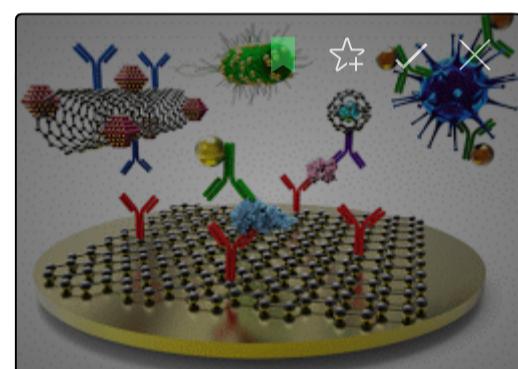
Nanoscale Ion Pump Derived from a Biological Water Channel

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The Journal of Physical Chemistry B DOI: 10.1021/acs.jpcb.7b05568



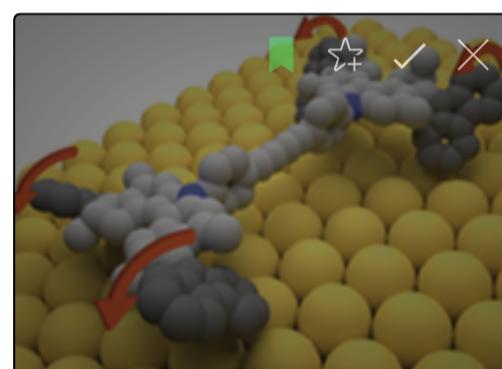
Matrix Stiffness Differentially Regulates Cellular Uptake Behavior of Nanoparticles in Two Breast Cancer Cell Lines

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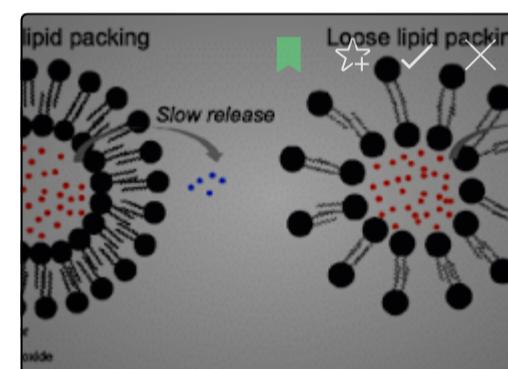
Nanoparticle-Based Immunochemical Biosensors and Assays: Recent Advances and Challenges

1 Chemical Reviews / by Zdeněk Farkaš, Tomáš Juřík, David Kovář, Libuše Trnková and Petr Skládal / 5mo
Chemical Reviews DOI: 10.1021/acs.chemrev.7b00037



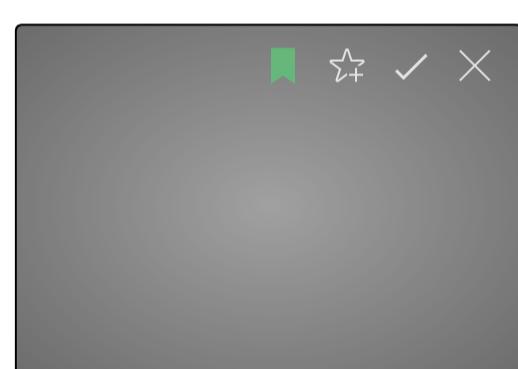
The Art of Building Small: From Molecular Switches to Motors (Nobel Lecture)

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A journey into the nano-world : The ability to design, use and control motor-like functions at the molecular level sets the



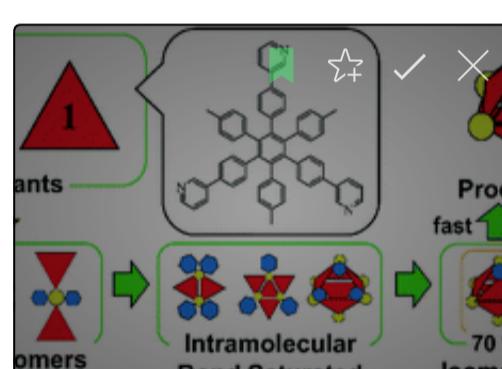
Controlled Release of Nitric Oxide from Liposomes

1 ACS Biomaterials Science & Engineering: Latest Art... / by Dakota J. Suchta and Mark H. Schoenfisch / 5mo
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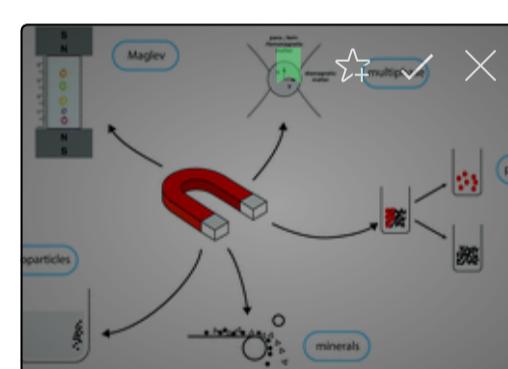
Dynamics of B-DNA in Electrically Charged Solid Nanopores

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The Journal of Physical Chemistry C DOI: 10.1021/acs.jpcc.7b03167



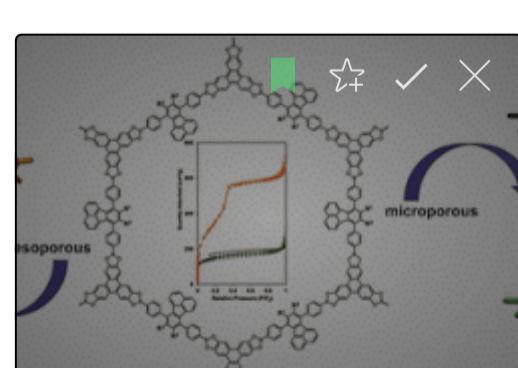
A reaction model on the self-assembly process of octahedron-shaped coordination capsules

1 Phys. Chem. Chem. Phys. / by Yoshihiro Matsumura / 5mo
Phys. Chem. Chem. Phys., 2017, 19, 20338-20342 DOI: 10.1039/C7CP03493H, Communication Yoshihiro Matsumura,



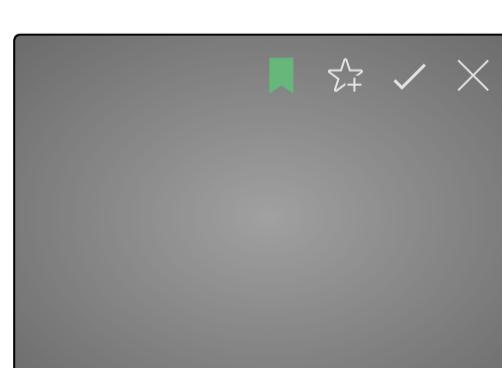
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1 Chem. Soc. Rev. / by M. Iranmanesh / 5mo
Chem. Soc. Rev., 2017, 46, 5925-5934 DOI: 10.1039/C7CS00230K, Review Article M. Iranmanesh, J. Hulliger The use of strong



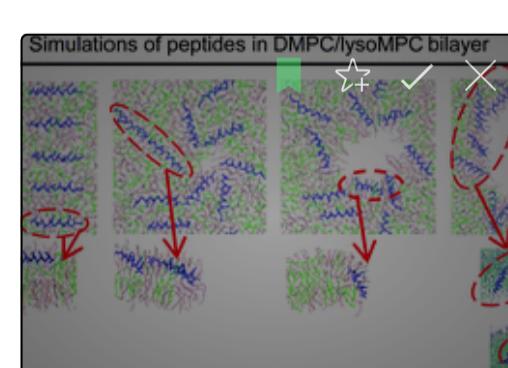
Computational and Experimental Studies on the Effects of Monomer Planarity on Covalent Organic Framework Formation

1 JACS / by Christina M. Thompson, Gino Ociallini, Gregory T. McCandless, Sampath B. Alahakoon, Victoria Cameron, Steven O. Nielsen and Ronald A. Smaldone / 5mo
Journal of the American Chemical Society DOI: 10.1021/jacs.7b05555



Toward Chemically Resolved Computer Simulations of Dynamics and Remodeling of Biological Membranes

1 JPCL / by Thereza A. Soares, Stefano Vanni, Giuseppe Milano and Michele Casella / 5mo
The Journal of Physical Chemistry Letters DOI: 10.1021/acs.jpclett.7b00493



Effect of lipid shape on toroidal pore formation and peptide orientation in lipid bilayers

1 Phys. Chem. Chem. Phys. / by Sun Young Woo / 5mo
Phys. Chem. Chem. Phys., 2017, 19, 21340-21349 DOI: 10.1039/C7CP02708G, Paper
Sun Young Woo, Hwankyung Lee Disordered





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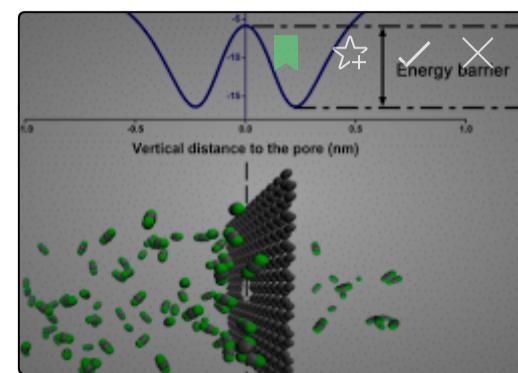
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Interruption of Hydrogen Bonding Networks of Water in Carbon Nanotubes Due to Strong Hydration Shell Formation

1 ⚡ Langmuir / by Yoshifumi Oya, Kenji Hata and Tomonori Ohba / 5mo

Langmuir DOI:
10.1021/acs.langmuir.7b01712



Mechanism and Prediction of Gas Permeation through Sub-Nanometer Graphene Pores: Comparison of Theory and Simulation

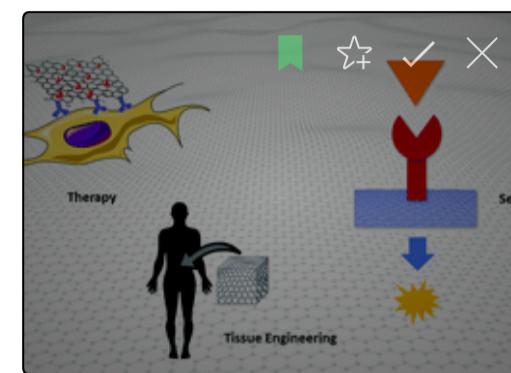
1 ⚡ ACS Nano / by Zhe Yuan, Ananth Govind Rajan, Rahul Prasanna Misra, Lee W. Drahushuk, Kumar Varoon Agrawal, Michael S. Strano and Daniel Blankschtein / 5mo

ACS Nano DOI: 10.1021/acsnano.7b02523

Probing Graphene-Surfactant Interactions in Aqueous Dispersions with Nuclear Overhauser Effect NMR Spectroscopy and Molecular Dynamics Simulations

1 ⚡ JPCB / by Vaishali Arunachalam and Sukumaran Vasudevan / 5mo

The Journal of Physical Chemistry C DOI:
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Promises, facts and challenges for graphene in biomedical applications

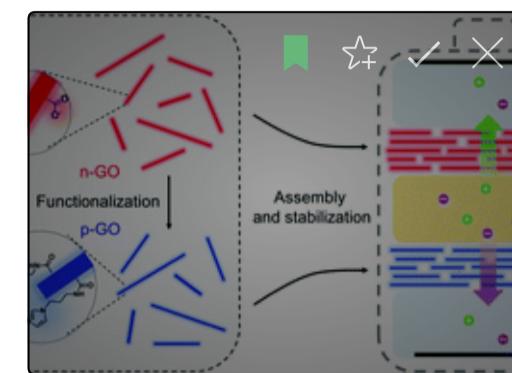
1 ⚡ Chem. Soc. Rev. / by Giacomo Reina / 5mo

Chem. Soc. Rev. , 2017, 46 ,4400-4416 DOI :
10.1039/C7CS00363C, Tutorial Review
Giacomo Reina, Jose Miguel Gonzalez-

Effect of Polycation Structure on Interaction with Lipid Membranes

1 ⚡ JPCB / by Natalia Wilkosz, Dorota Jamróz, Wojciech Kopeć, Keita Nakai, Shin-ichi Yusa, Magdalena Wytrwal-Sarna, Jan Bednar, Maria Nowakowska and Mariusz Kepczynski / 5mo

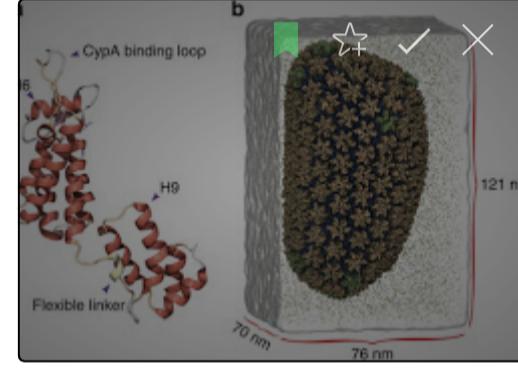
The Journal of Physical Chemistry B DOI:
10.1021/acs.jpcb.7b05248



Nanofluidics in two-dimensional layered materials: inspirations from nature

1 ⚡ Chem. Soc. Rev. / by Jun Gao / 5mo

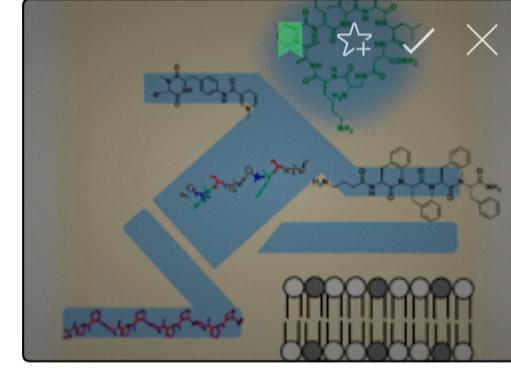
Chem. Soc. Rev. , 2017, 46 ,5400-5424 DOI :
10.1039/C7CS00369B, Review Article Jun Gao, Yaping Feng, Wei Guo, Lei Jiang This



Physical properties of the HIV-1 capsid from all-atom molecular dynamics simulations

1K ⚡ Nature Communications / by Juan R. Perilla / 5mo

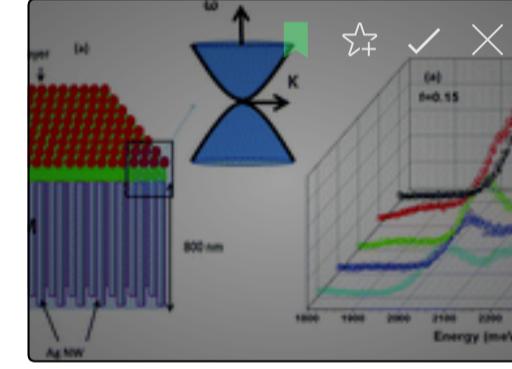
Physical properties of the HIV-1 capsid from all-atom molecular dynamics simulations
Nature Communications, Published online:



Jumping Hurdles: Peptides Able To Overcome Biological Barriers

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Accounts of Chemical Research DOI:
10.1021/acs.accounts.7b00204



Broadband room temperature strong coupling between quantum dots and metamaterials

1 ⚡ Nanoscale / by Chaitanya Indukuri / 5mo

Nanoscale , 2017, 9 ,11418-11423 DOI :
10.1039/C7NR03008H, Communication
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