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Cement Hydration  
Cement Polymer Interface  
Nanoindentation  
Thin Film Folding  
Molecular Dynamics

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<a href="#">Manifestation of Structural Differences of Atomically Precise Cluster-Assembled Solids in Their Mechanical Properties</a> KS Sugi, P Bandyopadhyay, M Bodiuzzaman, A Nag, M Hridya, WA Dar, ... Chemistry of Materials 32 (18), 7973-7984		2020
<a href="#">Prediction of glass transition temperature and Young's modulus of an inaccessible polymer substrate in changing environment</a> P Bandyopadhyay, M Dwivedi, H Krishnaswamy, P Ghosh Polymer 191, 122274	4	2020
<a href="#">Effect of Pore Solution Calcium and Substrate Calcium on PMMA/Cement Paste Interface during Early Stages of Hydration</a> AK Nagesh, NK Ilango, A Alex, P Ghosh American Ceramic Society	1	2020
<a href="#">Controlled shape morphing of solvent free thermoresponsive soft actuators</a> VP Anju, R Pratoori, DK Gupta, R Joshi, RK Annabattula, P Ghosh Soft Matter 16 (17), 4162-4172	1	2020
<a href="#">Pile-up response of polymer thin films to static and dynamic loading</a> G Mallikarjunachari, P Ghosh Thin Solid Films 677, 1-12	1	2019
<a href="#">Tailoring pore distribution in polymer films via evaporation induced phase separation</a> R Pervin, P Ghosh, MG Basavaraj RSC advances 9 (27), 15593-15605	7	2019
<a href="#">Non-affine deformation of free volume during strain dependent diffusion in polymer thin films</a> S Mathesan, M Tripathy, A Srivastava, P Ghosh Polymer 155, 177-186	5	2018
<a href="#">Comparative role of chain scission and solvation in the biodegradation of polylactic acid (PLA)</a> A Alex, NK Ilango, P Ghosh The Journal of Physical Chemistry B 122 (41), 9516-9526	7	2018

TITLE	CITED BY	YEAR
<a href="#">Probing the Mechanical Response of Luminescent Dithiol-Protected Ag<sub>29</sub>(BDT)<sub>12</sub>(TPP)<sub>4</sub> Cluster Crystals</a> KS Sugi, G Mallikarjunachari, A Som, P Ghosh, T Pradeep ChemNanoMat 4 (4), 401-408	4	2018
<a href="#">Modeling the evolution of C3S-C3S grain interface over hydration time</a> A Alex, P Ghosh Computational Modelling of Concrete Structures: Proceedings of the ...		2018
<a href="#">Influence of Microstructure on Nanomechanical Properties of Polymorphic Phases of Poly(vinylidene fluoride)</a> DKS G. Suresh, Sanjay Jatav, G. Mallikarjunachari, M. S. Ramachandra Rao ... Journal of Physical Chemistry B 122, 8591-8600	4	2018
<a href="#">Polymer thin film coating on Biomaterial</a> K Sivaselvi, P Ghosh Materials Today: Proceedings 5 (2), 3418-3424	2	2018
<a href="#">Solvent triggered irreversible shape morphism of biopolymer films</a> A Rath, PM Geethu, S Mathesan, DK Satapathy, P Ghosh Soft Matter 14 (9), 1672-1680	7	2018
<a href="#">Temporal Evolution of Microstructure, Chemical and Mechanical Properties of Tricalcium Silicate</a> A Alex, P Ghosh CONSTRUCTION MATERIALS AND SYSTEMS 597	1	2017
<a href="#">Insights on water dynamics in the hygromorphic phenomenon of biopolymer films</a> S Mathesan, A Rath, P Ghosh The Journal of Physical Chemistry B 121 (16), 4273-4282	4	2017
<a href="#">Application of nanomechanical response of wrinkled thin films in surface feature generation</a> G Mallikarjunachari, P Ghosh European Polymer Journal 89, 524-538	10	2017
<a href="#">Surface dissimilarity affects critical distance of influence for confined water</a> A Alex, AK Nagesh, P Ghosh RSC advances 7 (6), 3573-3584	6	2017
<a href="#">Analysis of strength and response of polymer nano thin film interfaces applying nanoindentation and nanoscratch techniques</a> G Mallikarjunachari, P Ghosh Polymer 90, 53-66	32	2016
<a href="#">Nanomechanical characterization and molecular mechanism study of nanoparticle reinforced and cross-linked chitosan biopolymer</a> A Rath, S Mathesan, P Ghosh Journal of the Mechanical Behavior of Biomedical Materials 55, 42-52	22	2016