

Chiral Nanomaterials for CPL Detection

Literature Repository

Miscellaneous

1. Ying Li, Yu Bai, Ziyang Zhang, Abuduwaili Abudukelimu, Yaqi Ren, Ikram Muhammad, Qi Li, Zhongyue Zhang, *Enhanced circular dichroism of plasmonic chiral system due to indirect coupling of two unaligned nanorods with metal film*, Applied Optics, 60(2021)
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2. Can Zhang,, Xiaohong Wang, Longzhen Qiu, *Circularly Polarized Photodetectors Based on Chiral Materials: A Review*, Frontiers in Chemistry, 9(2021)
DOI:10.3389/fchem.2021.711488
3. Nicholas A. Kotov, Luis M. Liz-Marza, Qiangbin Wang, *Chiral nanomaterials: evolving rapidly from concepts to applications*, Materials Advances, 3(2022)
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Plasmonics

1. Stefan A. Maier, Harry A. Atwater, *Plasmonics: Localization and guiding of electromagnetic energy in metal/dielectric structures*, Journal of applied physics, 98(2005)
DOI: 10.1063/1.1951057
2. Stefan A. Maier, *Plasmonics: Fundamentals and Applications*, Springer(2007)
ISBN 978-0387-33150-8
3. R. Padmanabhan, O. Soria, O. Eyal, V. Mikhelashvili, M. Orenstein, G. Eisenstein, *Responsivity Enhancement of Metal-Insulator Semiconductor Photodetectors on Silicon-On Insulator Substrates by Plasmonic Nanoantennas*, IEEE Transactions on Nanotechnology, 16(2017)
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Surfactant controlled synthesis

Review Papers

1. Junyan Xiao, Limin Qi, *Surfactant-assisted, shape-controlled synthesis of gold nanocrystals*, Nanoscale, 3(2011)
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2. Nguyen T. K. Thanh, N. Maclean, S. Mahiddine, *Mechanisms of Nucleation and Growth of Nanoparticles in Solution*, Chemical Reviews, 114(2014)
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3. Jörg Polte, *Fundamental growth principles of colloidal metal nanoparticles – a new perspective*, CrystEngComm, 17(2015)
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4. Zhaohui Wu, Shuanglei Yangb, Wei Wu, *Shape control of inorganic nanoparticles from solution*, *Nanoscale*, 8(2016)
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5. David Holec, Phillip Dumitraschkewitz, Dieter Vollath, Franz Dieter Fischer, *Surface Energy of Au Nanoparticles Depending on Their Size and Shape*, *MDPI Nanomaterials*, 10(2020)
DOI:10.3390/nano10030484

Gold NPs - Cetyl trimethylammonium halide - Ascorbic Acid pathway

1. Hsin-Lun Wu, Chun-Hong Kuo, Michael H. Huang, *Seed-Mediated Synthesis of Gold Nanocrystals with Systematic Shape Evolution from Cubic to Trisoctahedral and Rhombic Dodecahedral Structures*, *Langmuir*, 26 (2010)
DOI:10.1021/la1015065
2. Hsin-Lun Wu, Huei-Ru Tsai, Yun-Ting Hung, Ka-Un Lao, Ching-Wen Liao, Pei-Ju Chung, Jer-Shing Huang, I-Chia Chen, Michael H. Huang, *A Comparative Study of Gold Nanocubes, Octahedra, and Rhombic Dodecahedra as Highly Sensitive SERS Substrates*, *Inorganic Chemistry*, 50(2011) DOI:10.1021/ic200504n
3. Sejeong Kim, Yae-Chan Lim, Ryeong Myeong Kim, Johannes E. Fröch, Thinh N. Tran, Ki Tae Nam, Igor Aharonovich, *A Single Chiral Nanoparticle Induced Valley Polarization Enhancement*, *Small*, 16(2020)
DOI:10.1002/smll.202003005
4. M. G. Spirina, S. B. Brichkina, Yushkovc, V. F. Razumov, *Effect of Surfactants on Shape of Gold Nanoparticles*, *High Energy Chemistry*, 54(2020)
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5. Miharuru Eguchi, Daisuke Mitsui, Hsin-Lun Wu, Ryota Sato, Toshiharu Teranishi, *Simple Reductant Concentration-Dependent Shape Control of Polyhedral Gold Nanoparticles and Their Plasmonic Properties*, *Langmuir*, 28 (2022)
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Cu₂O NPs

1. Zhaoke Zheng, Baibiao Huang, Zeyan Wang, Meng Guo, Xiaoyan Qin, Xiaoyang Zhang, Peng Wang, Ying Dai, *Crystal Faces of Cu₂O and Their Stabilities in Photocatalytic Reactions*, *The Journal of Physical Chemistry C*, 113(2009)
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2. Qing Hua, Tian Cao, Huizhi Bao, Zhiquan Jiang, Weixin Huang, *Crystal-Plane-Controlled Surface Chemistry and Catalytic Performance of Surfactant-Free Cu₂O Nanocrystals*, *ChemSusChem*, 6(2013)
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Others

1. Daeha Seo, Ji Chan Park, and Hyunjoon Song, *Polyhedral Gold Nanocrystals with Oh Symmetry: From Octahedra to Cubes*, *Journal of the American Chemical Society*, 128(2006)
DOI:10.1021/ja062892u
2. Lian-Ming Lyu, Wei-Ching Wang, and Michael H. Huang, *Synthesis of Ag₂O Nanocrystals with Systematic Shape Evolution from Cubic to Hexapod Structures and*

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Microwave directed synthesis

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2. N. V. S. Praneeth, Santanu Paria, *Microwave-assisted one-pot synthesis of anisotropic gold nanoparticles with active high energy facets for enhanced catalytic and metal enhanced fluorescence activities*, CrystEnggComm, 20 (2018)
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3. Priyadarshini Ghosh, Debadrita Paria, Krishna Balasubramanian, Ambarish Ghosh, Ravishankar Narayanan, and Srinivasan Raghavan, *Directed Microwave-Assisted Self-Assembly of Au–Graphene–Au Plasmonic Dimers for SERS Applications*, Advanced Materials Interfaces, 6 (2019)
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