Kyoungweon Park

List of Publications by Year
in descending order

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32 papers	2,511 citations	279798 23 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	4719 citing authors

#	Article	IF	Citations
1	Mechanism for Liquid Phase Exfoliation of MoS₂. Chemistry of Materials, 2016, 28, 337-348.	6.7	340
2	Colloidal dispersion of gold nanorods: Historical background, optical properties, seed-mediated synthesis, shape separation and self-assembly. Materials Science and Engineering Reports, 2009, 65, 1-38.	31.8	294
3	Depletion-Induced Shape and Size Selection of Gold Nanoparticles. Nano Letters, 2010, 10, 1433-1439.	9.1	243
4	Growth Mechanism of Gold Nanorods. Chemistry of Materials, 2013, 25, 555-563.	6.7	186
5	Shape separation of gold nanorods using centrifugation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4981-4985.	7.1	179
6	Control over Position, Orientation, and Spacing of Arrays of Gold Nanorods Using Chemically Nanopatterned Surfaces and Tailored Particleâ€“Particleâ€“Surface Interactions. ACS Nano, 2012, 6, 5693-5701.	14.6	126
7	Does Shape Matter? Bioeffects of Gold Nanomaterials in a Human Skin Cell Model. Langmuir, 2012, 28, 3248-3258.	3.5	112
8	Plasmon-Induced Transparency in the Visible Region via Self-Assembled Gold Nanorod Heterodimers. Nano Letters, 2013, 13, 6287-6291.	9.1	101
9	Large Scale Solution Assembly of Quantum Dotâ€“Gold Nanorod Architectures with Plasmon Enhanced Fluorescence. ACS Nano, 2013, 7, 9064-9074.	14.6	91
10	Lowâ€Temperature Solutionâ€Processed Molybdenum Oxide Nanoparticle Hole Transport Layers for Organic Photovoltaic Devices. Advanced Energy Materials, 2012, 2, 1193-1197.	19.5	82
11	Engineering the Optical Properties of Gold Nanorods: Independent Tuning of Surface Plasmon Energy, Extinction Coefficient, and Scattering Cross Section. Journal of Physical Chemistry C, 2014, 118, 5918-5926.	3.1	80
12	Synthesis of Complex Au/Ag Nanorods by Controlled Overgrowth. Advanced Materials, 2008, 20, 3882-3886.	21.0	74
13	Ag shell morphology on Au nanorod core: role of Ag precursor complex. Journal of Materials Chemistry, 2011, 21, 15608.	6.7	69
14	In Situ UV/Vis, SAXS, and TEM Study of Single-Phase Gold Nanoparticle Growth. Chemistry of Materials, 2012, 24, 981-995.	6.7	69
15	Dynamic Plasmonic Pixels. ACS Nano, 2019, 13, 3875-3883.	14.6	68
16	Highâ€Yield Assembly of Soluble and Stable Gold Nanorod Pairs for Highâ€Temperature Plasmonics. Small, 2012, 8, 1013-1020.	10.0	56
17	Highly Concentrated Seed-Mediated Synthesis of Monodispersed Gold Nanorods. ACS Applied Materials & Interfaces, 2017, 9, 26363-26371.	8.0	56
18	Optical Properties of Rodlike Metallic Nanostructures: Insight from Theory and Experiment. Journal of Physical Chemistry C, 2009, 113, 15524-15532.	3.1	47

#	Article	IF	Citations
19	Time-Dependent Susceptibility of the Growth of Gold Nanorods to the Addition of a Cosurfactant. Chemistry of Materials, 2013, 25, 4772-4780.	6.7	36
20	Preparation of Ordered Monolayers of Polymer Grafted Nanoparticles: Impact of Architecture, Concentration, and Substrate Surface Energy. Macromolecules, 2016, 49, 1834-1847.	4.8	33
21	Orientation Sensing with Color Using Plasmonic Gold Nanorods and Assemblies. Journal of Physical Chemistry Letters, 2012, 3, 2568-2574.	4.6	30
22	Plasmon Dephasing in Gold Nanorods Studied Using Single-Nanoparticle Interferometric Nonlinear Optical Microscopy. Journal of Physical Chemistry C, 2016, 120, 4071-4079.	3.1	30
23	Asymmetrically Charged Carbon Nanotubes by Controlled Functionalization. ACS Nano, 2008, 2, 1833-1840.	14.6	28
24	Optimizing Seed Aging for Single Crystal Gold Nanorod Growth: The Critical Role of Gold Nanocluster Crystal Structure. Journal of Physical Chemistry C, 2016, 120, 28235-28245.	3.1	24
25	Computational Prediction of Molecular Photoresponse upon Proximity to Gold Nanorods. Journal of Physical Chemistry C, 2011, 115, 13961-13967.	3.1	13
26	Resolving Electronâ€“Electron Scattering in Plasmonic Nanorod Ensembles Using Two-Dimensional Electronic Spectroscopy. Nano Letters, 2020, 20, 7722-7727.	9.1	10
27	Plasmon-Mediated Chiroptical Second Harmonic Generation from Seemingly Achiral Gold Nanorods. ACS Nanoscience Au, 2022, 2, 32-39.	4.8	8
28	Low-energy, nanoparticle reshaping for large-area, patterned, plasmonic nanocomposites. Journal of Materials Chemistry C, 2018, 6, 7157-7169.	5.5	7
29	Towards maximum optical efficiency of ensembles of colloidal nanorods. Optics Express, 2022, 30, 25061.	3.4	6
30	Tuning Hierarchical Order and Plasmonic Coupling of Large-Area, Polymer-Grafted Gold Nanorod Assemblies via Flow-Coating. ACS Applied Materials & Interfaces, 2021, 13, 27445-27457.	8.0	5
31	Toward an Alkahest Canopy for Gold Nanorod Stability in Water and Organic Solvents. Journal of Physical Chemistry C, 2020, 124, 11730-11739.	3.1	4
32	Coexistence and Phase Behavior of Solventâ€“Polystyrene-Grafted Gold Nanoparticle Systems. Macromolecules, 2021, 54, 10435-10446.	4.8	4