

Florian Schulz

List of Publications by Year in descending order

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docs citations

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2415
citing authors

#	ARTICLE	IF	CITATIONS
1	Little Adjustments Significantly Improve the Turkevich Synthesis of Gold Nanoparticles. Langmuir, 2014, 30, 10779-10784.	3.5	155
2	Deep strong light-matter coupling in plasmonic nanoparticle crystals. Nature, 2020, 583, 780-784.	27.8	144
3	Effect of the Spacer Structure on the Stability of Gold Nanoparticles Functionalized with Monodentate Thiolated Poly(ethylene glycol) Ligands. Langmuir, 2013, 29, 9897-9908.	3.5	80
4	Excitation-Dependence of Plasmon-Induced Hot Electrons in Gold Nanoparticles. Journal of Physical Chemistry Letters, 2017, 8, 4925-4929.	4.6	70
5	Intraspinal Delivery of Polyethylene Glycol-coated Gold Nanoparticles Promotes Functional Recovery After Spinal Cord Injury. Molecular Therapy, 2015, 23, 993-1002.	8.2	68
6	X-ray-Based Techniques to Study the Nano-Bio Interface. ACS Nano, 2021, 15, 3754-3807.	14.6	60
7	Surface-Enhanced Raman Scattering and Surface-Enhanced Infrared Absorption by Plasmon Polaritons in Three-Dimensional Nanoparticle Supercrystals. ACS Nano, 2021, 15, 5523-5533.	14.6	58
8	Aptamer lateral flow assays for rapid and sensitive detection of cholera toxin. Analyst, The, 2019, 144, 1840-1849.	3.5	57
9	Structural order in plasmonic superlattices. Nature Communications, 2020, 11, 3821.	12.8	56
10	Highly Responsive PEG/Gold Nanoparticle Thin-Film Humidity Sensor via Inkjet Printing Technology. Langmuir, 2019, 35, 3256-3264.	3.5	53
11	Effective PEGylation of gold nanorods. Nanoscale, 2016, 8, 7296-7308.	5.6	50
12	3D diffractive imaging of nanoparticle ensembles using an x-ray laser. Optica, 2021, 8, 15.	9.3	48
13	Experimental Evidence for Nonthermal Contributions to Plasmon-Enhanced Electrochemical Oxidation Reactions. ACS Catalysis, 2020, 10, 2345-2353.	11.2	35
14	Fluorescence Properties of Hydrophilic Semiconductor Nanoparticles with Tridentate Polyethylene Oxide Ligands. ACS Nano, 2011, 5, 4965-4973.	14.6	33
15	Ligand Layer Engineering To Control Stability and Interfacial Properties of Nanoparticles. Langmuir, 2016, 32, 7897-7907.	3.5	31
16	Size-Dependent Phase Transfer Functionalization of Gold Nanoparticles To Promote Well-Ordered Self-Assembly. Langmuir, 2017, 33, 14437-14444.	3.5	31
17	Emergence of anomalous dynamics in soft matter probed at the European XFEL. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24110-24116.	7.1	31
18	Influence of the chirality of carbon nanodots on their interaction with proteins and cells. Nature Communications, 2021, 12, 7208.	12.8	31

#	ARTICLE	IF	CITATIONS
19	Dark Interlayer Plasmons in Colloidal Gold Nanoparticle Bi- and Few-Layers. ACS Photonics, 2018, 5, 3962-3969.	6.6	28
20	<i>In Situ</i> Functionalization and PEO Coating of Iron Oxide Nanocrystals Using Seeded Emulsion Polymerization. Langmuir, 2013, 29, 4915-4921.	3.5	26
21	Gold nanoparticles functionalized with a fragment of the neural cell adhesion molecule L1 stimulate L1-mediated functions. Nanoscale, 2013, 5, 10605.	5.6	25
22	Localising functionalised gold-nanoparticles in murine spinal cords by X-ray fluorescence imaging and background-reduction through spatial filtering for human-sized objects. Scientific Reports, 2018, 8, 16561.	3.3	25
23	Size-Dependent Electron-Phonon Coupling in Monocrystalline Gold Nanoparticles. ACS Photonics, 2021, 8, 752-757.	6.6	23
24	Recent Notable Approaches to Study Self-Assembly of Nanoparticles with X-Ray Scattering and Electron Microscopy. Particle and Particle Systems Characterization, 2021, 38, 2100087.	2.3	23
25	Tuning the Interaction of Nanoparticles from Repulsive to Attractive by Pressure. Journal of Physical Chemistry C, 2016, 120, 19856-19861.	3.1	19
26	Anisotropic and heterogeneous dynamics in an aging colloidal gel. Soft Matter, 2020, 16, 2864-2872.	2.7	19
27	Structure and Stability of PEG- and Mixed PEG-Clay-Coated Nanoparticles at High Particle Concentrations Studied In Situ by Small-Angle X-Ray Scattering. Particle and Particle Systems Characterization, 2018, 35, 1700319.	2.3	17
28	Direct optical excitation of dark plasmons for hot electron generation. Faraday Discussions, 2019, 214, 159-173.	3.2	15
29	Nanosecond X-ray photon correlation spectroscopy using pulse time structure of a storage-ring source. IUCr, 2021, 8, 124-130.	2.2	15
30	Pressure-Stimulated Supercrystal Formation in Nanoparticle Suspensions. Journal of Physical Chemistry Letters, 2018, 9, 4720-4724.	4.6	14
31	Impact of substrate on tip-enhanced Raman spectroscopy: A comparison between field-distribution simulations and graphene measurements. Physical Review Research, 2020, 2, .	3.6	14
32	Heterogeneous local order in self-assembled nanoparticle films revealed by X-ray cross-correlations. IUCr, 2018, 5, 354-360.	2.2	14
33	Targeted nanoparticles for tumour radiotherapy enhancement—the long dawn of a golden era?. Annals of Translational Medicine, 2016, 4, 523-523.	1.7	12
34	X-ray Fluorescence Uptake Measurement of Functionalized Gold Nanoparticles in Tumor Cell Microsamples. International Journal of Molecular Sciences, 2021, 22, 3691.	4.1	10
35	Anomalous SAXS at P12 beamline EMBL Hamburg: instrumentation and applications. Journal of Synchrotron Radiation, 2021, 28, 812-823.	2.4	9
36	Dark plasmon modes for efficient hot electron generation in multilayers of gold nanoparticles. Journal of Chemical Physics, 2020, 152, 064710.	3.0	9

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37	Unsupervised learning approaches to characterizing heterogeneous samples using X-ray single-particle imaging. IUCrJ, 2022, 9, 204-214.	2.2	9
38	Plasmonic Supercrystals with a Layered Structure Studied by a Combined TEMâ€SAXSâ€XCCA Approach. Advanced Materials Interfaces, 2020, 7, 2000919.	3.7	8
39	Kinetics of pressure-induced nanocrystal superlattice formation. Physical Chemistry Chemical Physics, 2019, 21, 21349-21354.	2.8	7
40	Impact of the Crosslinkerâ€™s Molecular Structure on the Aggregation of Gold Nanoparticles. Zeitschrift Fur Physikalische Chemie, 2017, 231, 19-31.	2.8	6
41	Local orientational order in self-assembled nanoparticle films: the role of ligand composition and salt. Journal of Applied Crystallography, 2019, 52, 777-782.	4.5	5
42	Supercrystal Formation of Gold Nanorods by High Pressure Stimulation. Journal of Physical Chemistry C, 2019, 123, 29994-30000.	3.1	4
43	Aqueous-Based Silica Nanoparticles as Carriers for Catalytically Active Biomacromolecules. ACS Applied Nano Materials, 2021, 4, 9060-9067.	5.0	4