

Emilie Ringe

List of Publications by Year in descending order

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73
papers

8,949
citations

136950

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91884

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g-index

73
all docs

73
docs citations

73
times ranked

15365
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Two-Dimensional Materials beyond Graphene. ACS Nano, 2015, 9, 11509-11539.	14.6	2,069
2	SERS: Materials, applications, and the future. Materials Today, 2012, 15, 16-25.	14.2	1,914
3	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. ACS Nano, 2017, 11, 6930-6941.	14.6	435
4	Single-Molecule Surface-Enhanced Raman Spectroscopy of Crystal Violet Isotopologues: Theory and Experiment. Journal of the American Chemical Society, 2011, 133, 4115-4122.	13.7	390
5	Heterometallic antenna-reactor complexes for photocatalysis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8916-8920.	7.1	381
6	Electrochemical CO ₂ Reduction with Atomic Iron-Dispersed on Nitrogen-Doped Graphene. Advanced Energy Materials, 2018, 8, 1703487.	19.5	369
7	Emerging Applications of Elemental 2D Materials. Advanced Materials, 2020, 32, e1904302.	21.0	336
8	Unraveling the Effects of Size, Composition, and Substrate on the Localized Surface Plasmon Resonance Frequencies of Gold and Silver Nanocubes: A Systematic Single-Particle Approach. Journal of Physical Chemistry C, 2010, 114, 12511-12516.	3.1	314
9	Correlated Structure and Optical Property Studies of Plasmonic Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 9291-9305.	3.1	217
10	Plasmon Length: A Universal Parameter to Describe Size Effects in Gold Nanoparticles. Journal of Physical Chemistry Letters, 2012, 3, 1479-1483.	4.6	191
11	Single nanoparticle plasmonics. Physical Chemistry Chemical Physics, 2013, 15, 4110.	2.8	172
12	Aluminum Nanocrystals. Nano Letters, 2015, 15, 2751-2755.	9.1	169
13	Wulff Construction for Alloy Nanoparticles. Nano Letters, 2011, 11, 3399-3403.	9.1	160
14	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. Science Advances, 2015, 1, e1500988.	10.3	146
15	Kinetic and Thermodynamic Modified Wulff Constructions for Twinned Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 15859-15870.	3.1	113
16	Resonant Coupling between Molecular Vibrations and Localized Surface Plasmon Resonance of Faceted Metal Oxide Nanocrystals. Nano Letters, 2017, 17, 2611-2620.	9.1	94
17	Photodoping through local charge carrier accumulation in alloyed hybrid perovskites for highly efficient luminescence. Nature Photonics, 2020, 14, 123-128.	31.4	93
18	Magnesium Nanoparticle Plasmonics. Nano Letters, 2018, 18, 3752-3758.	9.1	91

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19	Transition-Metal Decorated Aluminum Nanocrystals. ACS Nano, 2017, 11, 10281-10288.	14.6	76
20	Segregation in bimetallic nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 27940-27951.	2.8	75
21	Low Contact Barrier in 2H/1Tâ€² MoTe ₂ In-Plane Heterostructure Synthesized by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2019, 11, 12777-12785.	8.0	70
22	Polytypism in ultrathin tellurium. 2D Materials, 2019, 6, 015013.	4.4	68
23	Shapes, Plasmonic Properties, and Reactivity of Magnesium Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 15665-15679.	3.1	58
24	Singular charge fluctuations at a magnetic quantum critical point. Science, 2020, 367, 285-288.	12.6	55
25	Tunable and Linker Free Nanogaps in Coreâ€“Shell Plasmonic Nanorods for Selective and Quantitative Detection of Circulating Tumor Cells by SERS. ACS Applied Materials & Interfaces, 2017, 9, 37597-37605.	8.0	52
26	Correlating the structure and localized surface plasmon resonance of single silver right bipyramids. Nanotechnology, 2012, 23, 444005.	2.6	51
27	Eigenmode Tomography of Surface Charge Oscillations of Plasmonic Nanoparticles by Electron Energy Loss Spectroscopy. ACS Photonics, 2015, 2, 1628-1635.	6.6	51
28	Characterisation of Co@Fe ₃ O ₄ core@shell nanoparticles using advanced electron microscopy. Nanoscale, 2013, 5, 5765.	5.6	49
29	Resonances of nanoparticles with poor plasmonic metal tips. Scientific Reports, 2015, 5, 17431.	3.3	42
30	Detailed correlations between SERS enhancement and plasmon resonances in subwavelength closely spaced Au nanorod arrays. Nanoscale, 2018, 10, 4267-4275.	5.6	40
31	Small morphology variations effects on plasmonic nanoparticle dimer hotspots. Journal of Materials Chemistry C, 2018, 6, 9607-9614.	5.5	37
32	Tunable Lattice Coupling of Multipole Plasmon Modes and Near-Field Enhancement in Closely Spaced Gold Nanorod Arrays. Scientific Reports, 2016, 6, 23159.	3.3	34
33	Tents, Chairs, Tacos, Kites, and Rods: Shapes and Plasmonic Properties of Singly Twinned Magnesium Nanoparticles. ACS Nano, 2020, 14, 5968-5980.	14.6	32
34	Environmental Symmetry Breaking Promotes Plasmon Mode Splitting in Gold Nanotriangles. Journal of Physical Chemistry C, 2018, 122, 13259-13266.	3.1	30
35	Structural and Optical Properties of Discrete Dendritic Pt Nanoparticles on Colloidal Au Nanoprisms. Journal of Physical Chemistry C, 2016, 120, 20843-20851.	3.1	27
36	Ultrasensitive Plasmonic Platform for Label-Free Detection of Membrane-Associated Species. Analytical Chemistry, 2016, 88, 7968-7974.	6.5	23

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37	Large-area ultrathin Te films with substrate-tunable orientation. <i>Nanoscale</i> , 2020, 12, 12613-12622.	5.6	22
38	Approaches to modelling the shape of nanocrystals. <i>Nano Convergence</i> , 2021, 8, 26.	12.1	22
39	Nanocrystalline materials: recent advances in crystallographic characterization techniques. <i>IUCr</i> , 2014, 1, 530-539.	2.2	21
40	Optimization of Spectral and Spatial Conditions to Improve Super-Resolution Imaging of Plasmonic Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 299-306.	4.6	21
41	Near-field mapping of three-dimensional surface charge poles for hybridized plasmon modes. <i>AIP Advances</i> , 2015, 5, .	1.3	20
42	Reversible Shape and Plasmon Tuning in Hollow AgAu Nanorods. <i>Nano Letters</i> , 2016, 16, 6939-6945.	9.1	20
43	Chemical Decoration of Boron Nitride Nanotubes Using the Billups-Birch Reaction: Toward Enhanced Thermostable Reinforced Polymer and Ceramic Nanocomposites. <i>ACS Applied Nano Materials</i> , 2018, 1, 2421-2429.	5.0	20
44	Nanoparticle-Induced Self-Assembly of Block Copolymers into Nanoporous Films at the Air-Water Interface. <i>ACS Nano</i> , 2020, 14, 12203-12209.	14.6	20
45	Wulff-Based Approach to Modeling the Plasmonic Response of Single Crystal, Twinned, and Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25501-25508.	3.1	19
46	To sink, swim, twin, or nucleate: A critical appraisal of crystal aggregation processes. <i>Geology</i> , 2019, 47, 948-952.	4.4	19
47	Decoration of plasmonic Mg nanoparticles by partial galvanic replacement. <i>Journal of Chemical Physics</i> , 2019, 151, 244708.	3.0	18
48	Size Control in the Colloidal Synthesis of Plasmonic Magnesium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2022, 126, 563-577.	3.1	17
49	Micro-Extinction Spectroscopy (MExS): a versatile optical characterization technique. <i>Advanced Structural and Chemical Imaging</i> , 2018, 4, .	4.0	16
50	A room-temperature mid-infrared photodetector for on-chip molecular vibrational spectroscopy. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	16
51	Enhanced control of plasmonic properties of silver-gold hollow nanoparticles via a reduction-assisted galvanic replacement approach. <i>RSC Advances</i> , 2019, 9, 389-396.	3.6	14
52	2D Materials: Emerging Applications of Elemental 2D Materials (<i>Adv. Mater.</i> 7/2020). <i>Advanced Materials</i> , 2020, 32, 2070052.	21.0	14
53	Magnetic Vortex States in Toroidal Iron Oxide Nanoparticles: Combining Micromagnetics with Tomography. <i>Nano Letters</i> , 2020, 20, 7405-7412.	9.1	13
54	Opportunities and Challenges for Alternative Nanoplasmonic Metals: Magnesium and Beyond. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10630-10643.	3.1	13

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55	Advances in the Synthesis and Long-Term Protection of Zero-Valent Iron Nanoparticles. Particle and Particle Systems Characterization, 2018, 35, 1800120.	2.3	12
56	Gold Speciation and Co-reduction Control the Morphology of AgAu Nanoshells in Formaldehyde-Assisted Galvanic Replacement. Journal of Physical Chemistry C, 2018, 122, 18168-18176.	3.1	12
57	Surface-Enhanced Raman Spectroscopy of Fluid-Supported Lipid Bilayers. ACS Applied Materials & Interfaces, 2019, 11, 33442-33451.	8.0	11
58	Solvent effects on the kinetics of 4-nitrophenol reduction by NaBH ₄ in the presence of Ag and Au nanoparticles. Reaction Chemistry and Engineering, 2022, 7, 1728-1741.	3.7	10
59	Facet- and Gas-Dependent Reshaping of Au Nanoplates by Plasma Treatment. ACS Nano, 2021, 15, 9860-9870.	14.6	9
60	Improving the stability of plasmonic magnesium nanoparticles in aqueous media. Nanoscale, 2021, 13, 20649-20656.	5.6	8
61	In Situ Optical Tracking of Electroablation in Two-Dimensional Transition-Metal Dichalcogenides. ACS Applied Materials & Interfaces, 2018, 10, 40773-40780.	8.0	7
62	Solid-Liquid Self-Adaptive Polymeric Composite. ACS Applied Materials & Interfaces, 2016, 8, 2142-2147.	8.0	6
63	On the identification of twinning in body-centred cubic nanoparticles. Nanoscale, 2020, 12, 22009-22013.	5.6	6
64	Controllably Hollow AgAu Nanoparticles via Nonaqueous, Reduction Agent-Assisted Galvanic Replacement. Particle and Particle Systems Characterization, 2018, 35, 1700381.	2.3	5
65	Partial Cu occupancy in uranium copper dantimonide, UCu _{0.60} (4)Sb ₂ . Acta Crystallographica Section C: Crystal Structure Communications, 2008, 64, i76-i78.	0.4	4
66	Compressive Hyperspectral Microscopy of Scattering and Fluorescence of Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 2614-2626.	3.1	4
67	Exploring Scientific Ideas in Informal Settings: Activities for Individuals with Visual Impairments. Journal of Chemical Education, 2018, 95, 593-597.	2.3	2
68	Beyond Simple Crystal Systems: Identifying Twinning in Body-Centered Tetragonal Nanoparticles. Crystal Growth and Design, 2022, 22, 653-660.	3.0	2
69	Impact of Non-Uniform Doping on the Plasmonic Properties of In ₂ O ₃ Nanoparticles: A Study by Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2018, 24, 1684-1685.	0.4	1
70	Single nanoparticle plasmonics. , 0, .		1
71	Three-dimensional Surface Charge Reconstructions of Surface Plasmon Modes of Silver Right Bipyramids. Microscopy and Microanalysis, 2015, 21, 2225-2226.	0.4	0
72	Tuning the Resonance Frequency of Surface Plasmons Localized in Au-Ag Bimetallic Hollow Nanorods In-situ in a Transmission Electron Microscope. Microscopy and Microanalysis, 2016, 22, 990-991.	0.4	0

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73	Observation and Analysis of an Electrically Active Layer at the Core-Shell Interface of a GaN Nanowire by Advanced Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 1406-1407.	0.4	0