

# Sara Bals

## List of Publications by Year in descending order

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431  
papers

21,933  
citations

9786

73  
h-index

16183

124  
g-index

462  
all docs

462  
docs citations

462  
times ranked

27381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dopant-induced electron localization drives CO <sub>2</sub> reduction to C <sub>2</sub> hydrocarbons. <i>Nature Chemistry</i> , 2018, 10, 974-980.	13.6	781
2	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	14.6	705
3	The ASTRA Toolbox: A platform for advanced algorithm development in electron tomography. <i>Ultramicroscopy</i> , 2015, 157, 35-47.	1.9	652
4	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals with Tunable Composition and Thickness by Ultrasonication. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13887-13892.	13.8	615
5	Highly Emissive Divalent-Ion-Doped Colloidal CsPb <sub>1-x</sub> M <sub>x</sub> Br <sub>3</sub> Perovskite Nanocrystals through Cation Exchange. <i>Journal of the American Chemical Society</i> , 2017, 139, 4087-4097.	13.7	590
6	Long-range orientation and atomic attachment of nanocrystals in 2D honeycomb superlattices. <i>Science</i> , 2014, 344, 1377-1380.	12.6	343
7	Hydrophobic Interactions Modulate Self-Assembly of Nanoparticles. <i>ACS Nano</i> , 2012, 6, 11059-11065.	14.6	338
8	Electronically coupled complementary interfaces between perovskite band insulators. <i>Nature Materials</i> , 2006, 5, 556-560.	27.5	325
9	Atomic-scale determination of surface facets in gold nanorods. <i>Nature Materials</i> , 2012, 11, 930-935.	27.5	299
10	High-Yield Seeded Growth of Monodisperse Pentatwinned Gold Nanoparticles through Thermally Induced Seed Twinning. <i>Journal of the American Chemical Society</i> , 2017, 139, 107-110.	13.7	296
11	3D imaging of nanomaterials by discrete tomography. <i>Ultramicroscopy</i> , 2009, 109, 730-740.	1.9	255
12	From Precursor Powders to CsPbX <sub>3</sub> Perovskite Nanowires: One-Pot Synthesis, Growth Mechanism, and Oriented Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13887-13892.	13.8	249
13	Low-Dimensional Semiconductor Superlattices Formed by Geometric Control over Nanocrystal Attachment. <i>Nano Letters</i> , 2013, 13, 2317-2323.	9.1	218
14	Detection of amyloid fibrils in Parkinson's disease using plasmonic chirality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3225-3230.	7.1	209
15	Micelle-directed chiral seeded growth on anisotropic gold nanocrystals. <i>Science</i> , 2020, 368, 1472-1477.	12.6	205
16	Electron tomography based on a total variation minimization reconstruction technique. <i>Ultramicroscopy</i> , 2012, 113, 120-130.	1.9	204
17	In situ study of the formation mechanism of two-dimensional superlattices from PbSe nanocrystals. <i>Nature Materials</i> , 2016, 15, 1248-1254.	27.5	199
18	Quantitative atomic resolution mapping using high-angle annular dark field scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2009, 109, 1236-1244.	1.9	195

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19	Gel-based morphological design of zirconium metal-organic frameworks. <i>Chemical Science</i> , 2017, 8, 3939-3948.	7.4	177
20	Spontaneous Self-Assembly of Perovskite Nanocrystals into Electronically Coupled Supercrystals: Toward Filling the Green Gap. <i>Advanced Materials</i> , 2018, 30, e1801117.	21.0	163
21	Design of zeolite by inverse sigma transformation. <i>Nature Materials</i> , 2012, 11, 1059-1064.	27.5	161
22	Tailoring ZnSe/CdSe Colloidal Quantum Dots via Cation Exchange: From Core/Shell to Alloy Nanocrystals. <i>ACS Nano</i> , 2013, 7, 7913-7930.	14.6	161
23	Polyethylene Glycol Conjugated Polymeric Nanocapsules for Targeted Delivery of Quercetin to Folate-Expressing Cancer Cells <i>in Vitro</i> and <i>in Vivo</i> . <i>ACS Nano</i> , 2014, 8, 1384-1401.	14.6	155
24	Edge stabilization in reduced-dimensional perovskites. <i>Nature Communications</i> , 2020, 11, 170.	12.8	147
25	Anisotropic Cation Exchange in PbSe/CdSe Core/Shell Nanocrystals of Different Geometry. <i>Chemistry of Materials</i> , 2012, 24, 294-302.	6.7	144
26	Encapsulation of Single Plasmonic Nanoparticles within ZIF-8 and SERS Analysis of the MOF Flexibility. <i>Small</i> , 2016, 12, 3935-3943.	10.0	142
27	A Generalized Electrochemical Aggregative Growth Mechanism. <i>Journal of the American Chemical Society</i> , 2013, 135, 11550-11561.	13.7	140
28	Magnetic Drug Targeting: Preclinical <i>in Vivo</i> Studies, Mathematical Modeling, and Extrapolation to Humans. <i>Nano Letters</i> , 2016, 16, 5652-5660.	9.1	140
29	Au@Ag Nanoparticles: Halides Stabilize {100} Facets. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2209-2216.	4.6	138
30	Highly selective gas separation membrane using <i>in situ</i> amorphised metal-organic frameworks. <i>Energy and Environmental Science</i> , 2017, 10, 2342-2351.	30.8	137
31	Monitoring Galvanic Replacement Through Three-Dimensional Morphological and Chemical Mapping. <i>Nano Letters</i> , 2014, 14, 3220-3226.	9.1	136
32	Three-Dimensional Atomic Imaging of Colloidal Core-Shell Nanocrystals. <i>Nano Letters</i> , 2011, 11, 3420-3424.	9.1	134
33	Molecular shape-selectivity of MFI zeolite nanosheets in <i>n</i> -decane isomerization and hydrocracking. <i>Journal of Catalysis</i> , 2013, 300, 70-80.	6.2	132
34	Well Shaped Mn <sub>3</sub> O <sub>4</sub> Nanooctahedra with Anomalous Magnetic Behavior and Enhanced Photodecomposition Properties. <i>Small</i> , 2011, 7, 475-483.	10.0	131
35	Luminescent CuInS <sub>2</sub> Quantum Dots by Partial Cation Exchange in Cu <sub>2</sub> S Nanocrystals. <i>Chemistry of Materials</i> , 2015, 27, 621-628.	6.7	127
36	Templated Growth of Surface Enhanced Raman Scattering-Active Branched Gold Nanoparticles within Radial Mesoporous Silica Shells. <i>ACS Nano</i> , 2015, 9, 10489-10497.	14.6	124

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37	Controlled Living Nanowire Growth: Precise Control over the Morphology and Optical Properties of AgAuAg Bimetallic Nanowires. <i>Nano Letters</i> , 2015, 15, 5427-5437.	9.1	122
38	Procedure to count atoms with trustworthy single-atom sensitivity. <i>Physical Review B</i> , 2013, 87, .	3.2	121
39	Tunable porous nanoallotropes prepared by post-assembly etching of binary nanoparticle superlattices. <i>Science</i> , 2017, 358, 514-518.	12.6	120
40	New Insights into the Early Stages of Nanoparticle Electrodeposition. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2322-2329.	3.1	118
41	N-doped ordered mesoporous carbons prepared by a two-step nanocasting strategy as highly active and selective electrocatalysts for the reduction of O <sub>2</sub> to H <sub>2</sub> O <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 212-224.	20.2	117
42	Shape control in ZIF-8 nanocrystals and metal nanoparticles@ZIF-8 heterostructures. <i>Nanoscale</i> , 2017, 9, 16645-16651.	5.6	116
43	Advanced Electron Microscopy for Advanced Materials. <i>Advanced Materials</i> , 2012, 24, 5655-5675.	21.0	115
44	End-to-End Assembly of Shape-Controlled Nanocrystals via a Nanowelding Approach Mediated by Gold Domains. <i>Advanced Materials</i> , 2009, 21, 550-554.	21.0	114
45	Gold nanoclusters with bright near-infrared photoluminescence. <i>Nanoscale</i> , 2018, 10, 3792-3798.	5.6	113
46	Disconnecting Symmetry Breaking from Seeded Growth for the Reproducible Synthesis of High Quality Gold Nanorods. <i>ACS Nano</i> , 2019, 13, 4424-4435.	14.6	113
47	Measuring Lattice Strain in Three Dimensions through Electron Microscopy. <i>Nano Letters</i> , 2015, 15, 6996-7001.	9.1	110
48	Optimized fabrication of high-quality La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> thin films considering all essential characteristics. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 205001.	2.8	105
49	Femtosecond Laser-Controlled Tip-to-Tip Assembly and Welding of Gold Nanorods. <i>Nano Letters</i> , 2015, 15, 8282-8288.	9.1	105
50	Near-Infrared Emitting CuInSe <sub>2</sub> /CuInS <sub>2</sub> Dot Core/Rod Shell Heteronanorods by Sequential Cation Exchange. <i>ACS Nano</i> , 2015, 9, 11430-11438.	14.6	104
51	Atomic scale dynamics of ultrasmall germanium clusters. <i>Nature Communications</i> , 2012, 3, 897.	12.8	101
52	Three-Dimensional Elemental Mapping at the Atomic Scale in Bimetallic Nanocrystals. <i>Nano Letters</i> , 2013, 13, 4236-4241.	9.1	101
53	The role of MOFs in Thin-Film Nanocomposite (TFN) membranes. <i>Journal of Membrane Science</i> , 2018, 563, 938-948.	8.2	99
54	A Titanium(IV)-Based Metal-Organic Framework Featuring Defect-Rich TiO <sub>2</sub> Sheets as an Oxidative Desulfurization Catalyst. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9160-9165.	13.8	99

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55	Independent tuning of size and coverage of supported Pt nanoparticles using atomic layer deposition. <i>Nature Communications</i> , 2017, 8, 1074.	12.8	95
56	Nanostructured materials for solid-state hydrogen storage: A review of the achievement of COST Action MP1103. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14404-14428.	7.1	94
57	Three-Dimensional Quantification of the Facet Evolution of Pt Nanoparticles in a Variable Gaseous Environment. <i>Nano Letters</i> , 2019, 19, 477-481.	9.1	93
58	Steric Hindrance Induces crosslike Self-Assembly of Gold Nanodumbbells. <i>Nano Letters</i> , 2012, 12, 4380-4384.	9.1	91
59	Three-Dimensional Valency Mapping in Ceria Nanocrystals. <i>ACS Nano</i> , 2014, 8, 10878-10884.	14.6	91
60	Quantitative Three-Dimensional Reconstruction of Catalyst Particles for Bamboo-like Carbon Nanotubes. <i>Nano Letters</i> , 2007, 7, 3669-3674.	9.1	88
61	Defect Engineering in Oxide Heterostructures by Enhanced Oxygen Surface Exchange. <i>Advanced Functional Materials</i> , 2013, 23, 5240-5248.	14.9	88
62	Fluorescent Nanodiamonds Embedded in Biocompatible Translucent Shells. <i>Small</i> , 2014, 10, 1106-1115.	10.0	88
63	Measuring Porosity at the Nanoscale by Quantitative Electron Tomography. <i>Nano Letters</i> , 2010, 10, 5014-5019.	9.1	87
64	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , 2019, 31, e1805580.	21.0	87
65	Plasmonic Au@Pd Nanorods with Boosted Refractive Index Susceptibility and SERS Efficiency: A Multifunctional Platform for Hydrogen Sensing and Monitoring of Catalytic Reactions. <i>Chemistry of Materials</i> , 2016, 28, 9169-9180.	6.7	85
66	Interplay between Surface Chemistry, Precursor Reactivity, and Temperature Determines Outcome of ZnS Shelling Reactions on $\text{CuInS}_2$ Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 2400-2413.	6.7	85
67	Galvanic Replacement Coupled to Seeded Growth as a Route for Shape-Controlled Synthesis of Plasmonic Nanorattles. <i>Journal of the American Chemical Society</i> , 2016, 138, 11453-11456.	13.7	83
68	Statistical Estimation of Atomic Positions from Exit Wave Reconstruction with a Precision in the Picometer Range. <i>Physical Review Letters</i> , 2006, 96, 096106.	7.8	82
69	High-Quality Sample Preparation by Low kV FIB Thinning for Analytical TEM Measurements. <i>Microscopy and Microanalysis</i> , 2007, 13, 80-86.	0.4	82
70	Chemical Cutting of Perovskite Nanowires into Single-Photon Emissive Low-Aspect-Ratio $\text{CsPbX}_3$ (X=Cl, Br, I) Nanorods. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16094-16098.	13.8	79
71	Interfacial Oxidation and Photoluminescence of InP-Based Core/Shell Quantum Dots. <i>Chemistry of Materials</i> , 2018, 30, 6877-6883.	6.7	78
72	Single-site metal-organic framework catalysts for the oxidative coupling of arenes via C-H/C-H activation. <i>Chemical Science</i> , 2019, 10, 3616-3622.	7.4	77

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73	Catalyst Design by NH <sub>4</sub> OH Treatment of USY Zeolite. <i>Advanced Functional Materials</i> , 2015, 25, 7130-7144.	14.9	76
74	Solution-Processable Ultrathin Size- and Shape-Controlled Colloidal Cu <sub>2</sub> S Nanosheets. <i>Chemistry of Materials</i> , 2015, 27, 283-291.	6.7	76
75	Nanorattles with tailored electric field enhancement. <i>Nanoscale</i> , 2017, 9, 9376-9385.	5.6	76
76	Correction of non-linear thickness effects in HAADF STEM electron tomography. <i>Ultramicroscopy</i> , 2012, 116, 8-12.	1.9	75
77	Collective Plasmonic Properties in Few-Layer Gold Nanorod Supercrystals. <i>ACS Photonics</i> , 2015, 2, 1482-1488.	6.6	75
78	Comprehensive Study of the Electrodeposition of Nickel Nanostructures from Deep Eutectic Solvents: Self-Limiting Growth by Electrolysis of Residual Water. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9337-9347.	3.1	75
79	Advanced reconstruction algorithms for electron tomography: From comparison to combination. <i>Ultramicroscopy</i> , 2013, 127, 40-47.	1.9	74
80	Preventing the Reconstruction of the Polar Discontinuity at Oxide Heterointerfaces. <i>Advanced Functional Materials</i> , 2012, 22, 2235-2240.	14.9	72
81	Manganese-Doping-Induced Quantum Confinement within Host Perovskite Nanocrystals through Ruddlesden-Popper Defects. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6794-6799.	13.8	72
82	Combined TiO <sub>2</sub> /SiO <sub>2</sub> mesoporous photocatalysts with location and phase controllable TiO <sub>2</sub> nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 515-524.	20.2	70
83	Conceptual Frame Rationalizing the Self-Stabilization of H-USY Zeolites in Hot Liquid Water. <i>ACS Catalysis</i> , 2015, 5, 754-768.	11.2	70
84	Gold Nanostar-Coated Polystyrene Beads as Multifunctional Nanoprobes for SERS Bioimaging. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20860-20868.	3.1	69
85	Quantitative Three-Dimensional Modeling of Zeolite Through Discrete Electron Tomography. <i>Journal of the American Chemical Society</i> , 2009, 131, 4769-4773.	13.7	66
86	Supracrystalline Colloidal Eggs: Epitaxial Growth and Freestanding Three-Dimensional Supracrystals in Nanoscaled Colloidosomes. <i>Journal of the American Chemical Society</i> , 2016, 138, 3493-3500.	13.7	65
87	Cuboidal Supraparticles Self-Assembled from Cubic CsPbBr <sub>3</sub> Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15706-15712.	3.1	65
88	3D Magnetic Induction Maps of Nanoscale Materials Revealed by Electron Holographic Tomography. <i>Chemistry of Materials</i> , 2015, 27, 6771-6778.	6.7	64
89	Gallium Oxide Nanorods: Novel, Template-Free Synthesis and High Catalytic Activity in Epoxidation Reactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1585-1589.	13.8	63
90	A New Approach for Electron Tomography: Annular Dark-Field Transmission Electron Microscopy. <i>Advanced Materials</i> , 2006, 18, 892-895.	21.0	62

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91	Direct Determination of Polarity, Faceting, and Core Location in Colloidal Core/Shell Wurtzite Semiconductor Nanocrystals. <i>ACS Nano</i> , 2012, 6, 6453-6461.	14.6	61
92	Plasmonic gold-embedded TiO <sub>2</sub> thin films as photocatalytic self-cleaning coatings. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118654.	20.2	61
93	Fully Inorganic Ruddlesden-Popper Double Cl <sup>-1</sup> and Triple Cl <sup>-1</sup> Br <sup>-1</sup> Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2019, 31, 2182-2190.	6.7	60
94	Three-Dimensional Characterization of Helical Silver Nanochains Mediated by Protein Assemblies. <i>Advanced Materials</i> , 2010, 22, 2193-2197.	21.0	59
95	Tuning the Pore Size of Ink-Bottle Mesopores by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2012, 24, 1992-1994.	6.7	59
96	Three-Dimensional Characterization of Noble-Metal Nanoparticles and their Assemblies by Electron Tomography. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10600-10610.	13.8	59
97	A Simple Road for the Transformation of Few-Layer Graphene into MWNTs. <i>Journal of the American Chemical Society</i> , 2012, 134, 13310-13315.	13.7	58
98	The Role of Nanocluster Aggregation, Coalescence, and Recrystallization in the Electrochemical Deposition of Platinum Nanostructures. <i>Chemistry of Materials</i> , 2014, 26, 2396-2406.	6.7	58
99	Direct Observation of Luminescent Silver Clusters Confined in Faujasite Zeolites. <i>ACS Nano</i> , 2016, 10, 7604-7611.	14.6	58
100	Single Particle Deformation and Analysis of Silica-Coated Gold Nanorods before and after Femtosecond Laser Pulse Excitation. <i>Nano Letters</i> , 2016, 16, 1818-1825.	9.1	58
101	Synthesis of Janus plasmonic-magnetic, star-sphere nanoparticles, and their application in SERS detection. <i>Faraday Discussions</i> , 2016, 191, 47-59.	3.2	58
102	Chemistry of Shape-Controlled Iron Oxide Nanocrystal Formation. <i>ACS Nano</i> , 2019, 13, 152-162.	14.6	58
103	Electrodeposition of Ag nanoparticles onto carbon coated TEM grids A direct approach to study early stages of nucleation. <i>Electrochemistry Communications</i> , 2010, 12, 1706-1709.	4.7	57
104	Electrochemical Behavior of Electrodeposited Nanoporous Pt Catalysts for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2016, 6, 5856-5864.	11.2	56
105	3D characterization of heat-induced morphological changes of Au nanostars by fast <i>in situ</i> electron tomography. <i>Nanoscale</i> , 2018, 10, 22792-22801.	5.6	56
106	Triple-Modal Imaging of Magnetically-Targeted Nanocapsules in Solid Tumours <i>In Vivo</i> . <i>Theranostics</i> , 2016, 6, 342-356.	10.0	55
107	Halide Perovskite-Lead Chalcohalide Nanocrystal Heterostructures. <i>Journal of the American Chemical Society</i> , 2021, 143, 1435-1446.	13.7	55
108	Multifunctional self-assembled composite colloids and their application to SERS detection. <i>Nanoscale</i> , 2015, 7, 10377-10381.	5.6	54

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109	Starke Lumineszenz in Nanokristallen aus Caesiumbleihalogenid-Perowskit mit durchstimmbarer Zusammensetzung und Dicke mittels Ultraschalldispersion. <i>Angewandte Chemie</i> , 2016, 128, 14091-14096.	2.0	54
110	Toward High-Temperature Stability of PTB7-Based Bulk Heterojunction Solar Cells: Impact of Fullerene Size and Solvent Additive. <i>Advanced Energy Materials</i> , 2017, 7, 1601486.	19.5	53
111	Reversible Clustering of Gold Nanoparticles under Confinement. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3183-3186.	13.8	53
112	Fe <sup>2+</sup> Deficiencies, FeO Subdomains, and Structural Defects Favor Magnetic Hyperthermia Performance of Iron Oxide Nanocubes into Intracellular Environment. <i>Nano Letters</i> , 2018, 18, 6856-6866.	9.1	53
113	Pt/ZrO <sub>2</sub> Prepared by Atomic Trapping: An Efficient Catalyst for the Conversion of Glycerol to Lactic Acid with Concomitant Transfer Hydrogenation of Cyclohexene. <i>ACS Catalysis</i> , 2019, 9, 9953-9963.	11.2	53
114	Crystallographic Shear Structures as a Route to Anion-Deficient Perovskites. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6697-6700.	13.8	52
115	The uptake and elimination of ZnO and CuO nanoparticles in <i>Daphnia magna</i> under chronic exposure scenarios. <i>Water Research</i> , 2015, 68, 249-261.	11.3	52
116	Annular dark field imaging in a TEM. <i>Solid State Communications</i> , 2004, 130, 675-680.	1.9	51
117	Dimethylformamide-mediated synthesis of water-soluble platinum nanodendrites for ethanol oxidation electrocatalysis. <i>Nanoscale</i> , 2013, 5, 4776.	5.6	51
118	Thermal Stability of Gold/Palladium Octopods Studied <i>in Situ</i> in 3D: Understanding Design Rules for Thermally Stable Metal Nanoparticles. <i>ACS Nano</i> , 2019, 13, 6522-6530.	14.6	51
119	Pd-catalyzed decarboxylation of glutamic acid and pyroglutamic acid to bio-based 2-pyrrolidone. <i>Green Chemistry</i> , 2015, 17, 2263-2270.	9.0	50
120	Synthesis of Highly Luminescent Silica-Coated CdSe/CdS Nanorods. <i>Chemistry of Materials</i> , 2013, 25, 3427-3434.	6.7	49
121	Plasmonic "rainbow" photocatalyst with broadband solar light response for environmental applications. <i>Applied Catalysis B: Environmental</i> , 2016, 188, 147-153.	20.2	49
122	Atomic Resolution Monitoring of Cation Exchange in CdSe-PbSe Heteronanocrystals during Epitaxial Solid-Vapor Growth. <i>Nano Letters</i> , 2014, 14, 3661-3667.	9.1	48
123	Atomic layer deposition-based synthesis of photoactive TiO <sub>2</sub> nanoparticle chains by using carbon nanotubes as sacrificial templates. <i>RSC Advances</i> , 2014, 4, 11648.	3.6	48
124	A Framework to Account for Sedimentation and Diffusion in Particle-Cell Interactions. <i>Langmuir</i> , 2016, 32, 12394-12402.	3.5	48
125	Janus gold nanoparticles obtained via spontaneous binary polymer shell segregation. <i>Chemical Communications</i> , 2016, 52, 4278-4281.	4.1	48
126	Silver-polymer core-shell nanoparticles for ultrastable plasmon-enhanced photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 31-38.	20.2	48



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127	Three-Dimensional Analysis of Carbon Nanotube Networks in Interconnects by Electron Tomography without Missing Wedge Artifacts. <i>Microscopy and Microanalysis</i> , 2010, 16, 210-217.	0.4	47
128	Seedless Synthesis of Single Crystalline Au Nanoparticles with Unusual Shapes and Tunable LSPR in the near-IR. <i>Chemistry of Materials</i> , 2012, 24, 1393-1399.	6.7	47
129	The uptake of ZnO and CuO nanoparticles in the water-flea <i>Daphnia magna</i> under acute exposure scenarios. <i>Environmental Pollution</i> , 2014, 194, 130-137.	7.5	47
130	Self-Assembly of Pluronic F127-Silica Spherical Core-Shell Nanoparticles in Cubic Close-Packed Structures. <i>Chemistry of Materials</i> , 2015, 27, 5161-5169.	6.7	47
131	Conformal and Atomic Characterization of Ultrathin CdSe Platelets with a Helical Shape. <i>Nano Letters</i> , 2014, 14, 6257-6262.	9.1	46
132	Sol-gel hot injection synthesis of ZnO nanoparticles into a porous silica matrix and reaction mechanism. <i>Materials and Design</i> , 2017, 119, 270-276.	7.0	46
133	Enhanced electrochemical performance of Li-rich cathode materials through microstructural control. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23112-23122.	2.8	46
134	LaFeO <sub>3</sub> Nanofibers for High Detection of Sulfur-Containing Gases. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6023-6032.	6.7	46
135	The properties of SIRT, TVM, and DART for 3D imaging of tubular domains in nanocomposite thin-films and sections. <i>Ultramicroscopy</i> , 2014, 147, 137-148.	1.9	45
136	Plasmon Mapping in Au@Ag Nanocube Assemblies. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15356-15362.	3.1	45
137	Unscrambling Mixed Elements using High Angle Annular Dark Field Scanning Transmission Electron Microscopy. <i>Physical Review Letters</i> , 2016, 116, 246101.	7.8	45
138	Quantitative determination of residual silver distribution in nanoporous gold and its influence on structure and catalytic performance. <i>Journal of Catalysis</i> , 2017, 352, 52-58.	6.2	45
139	Ligand-Induced Shape Transformation of PbSe Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 4122-4128.	6.7	45
140	Near-Infrared-Emitting CuInS <sub>2</sub> /ZnS Dot-in-Rod Colloidal Heteronanorods by Seeded Growth. <i>Journal of the American Chemical Society</i> , 2018, 140, 5755-5763.	13.7	45
141	Alloy CsCd <sub>x</sub> Pb <sub>1-x</sub> Br <sub>3</sub> Perovskite Nanocrystals: The Role of Surface Passivation in Preserving Composition and Blue Emission. <i>Chemistry of Materials</i> , 2020, 32, 10641-10652.	6.7	45
142	S,O-Functionalized Metal-Organic Frameworks as Heterogeneous Single-Site Catalysts for the Oxidative Alkenylation of Arenes via C-H activation. <i>ACS Catalysis</i> , 2020, 10, 5077-5085.	11.2	45
143	Multiple Dot-in-Rod PbS/CdS Heterostructures with High Photoluminescence Quantum Yield in the Near-Infrared. <i>Journal of the American Chemical Society</i> , 2012, 134, 5484-5487.	13.7	44
144	Atomic layer deposition-based tuning of the pore size in mesoporous thin films studied by in situ grazing incidence small angle X-ray scattering. <i>Nanoscale</i> , 2014, 6, 14991-14998.	5.6	44

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