

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	3D arrangement of epitaxial graphene conformally grown on porousified crystalline SiC. Carbon, 2022, 189, 210-218.	10.3	3
2	Two-Dimensional CdSe-PbSe Heterostructures and PbSe Nanoplatelets: Formation, Atomic Structure, and Optical Properties. Journal of Physical Chemistry C, 2022, 126, 1513-1522.	3.1	11
3	Catalytic upcycling of PVC waste-derived phthalate esters into safe, hydrogenated plasticizers. Green Chemistry, 2022, 24, 754-766.	9.0	14
4	Metal-Polymer Heterojunction in Colloidal-Phase Plasmonic Catalysis. Journal of Physical Chemistry Letters, 2022, 13, 2264-2272.	4.6	2
5	Quantification of the Helical Morphology of Chiral Gold Nanorods. , 2022, 4, 642-649.		13
6	Investigating Reaction Intermediates during the Seedless Growth of Gold Nanostars Using Electron Tomography. ACS Nano, 2022, 16, 4408-4414.	14.6	16
7	Chemistry, Local Molybdenum Clustering, and Electrochemistry in the Li_2MoO_3 Solid Solutions. Inorganic Chemistry, 2022, 61, 5637-5652.	4.0	4
8	Direct Solar Energy-Mediated Synthesis of Tertiary Benzylic Alcohols Using a Metal-Free Heterogeneous Photocatalyst. ACS Sustainable Chemistry and Engineering, 2022, 10, 530-540.	6.7	25
9	Multimode Electron Tomography Sheds Light on Synthesis, Structure, and Properties of Complex Metal-Based Nanoparticles. Advanced Materials, 2022, 34, e2110394.	21.0	11
10	Use of Nanoscale Carbon Layers on Ag-Based Gas Diffusion Electrodes to Promote CO Production. ACS Applied Nano Materials, 2022, 5, 7723-7732.	5.0	3
11	Atomic-scale detection of individual lead clusters confined in Linde Type A zeolites. Nanoscale, 2022, 14, 9323-9330.	5.6	2
12	Fast A-Site Cation Cross-Exchange at Room Temperature: Single- and Triple-Cation Halide Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2022, 61, .	13.8	29
13	Thermal Activation of Gold Atom Diffusion in Au@Pt Nanorods. ACS Nano, 2022, 16, 9608-9619.	14.6	8
14	Shuffling Atomic Layer Deposition Gas Sequences to Modulate Bimetallic Thin Films and Nanoparticle Properties. Chemistry of Materials, 2022, 34, 6142-6154.	6.7	3
15	Halide perovskites as disposable epitaxial templates for the phase-selective synthesis of lead sulfochloride nanocrystals. Nature Communications, 2022, 13, .	12.8	16
16	Fast versus conventional HAADF-STEM tomography of nanoparticles: advantages and challenges. Ultramicroscopy, 2021, 221, 113191.	1.9	17
17	Highly active, selective, and stable Pd single-atom catalyst anchored on N-doped hollow carbon sphere for electrochemical H ₂ O ₂ synthesis under acidic conditions. Journal of Catalysis, 2021, 393, 313-323.	6.2	43
18	A simple method to clean ligand contamination on TEM grids. Ultramicroscopy, 2021, 221, 113195.	1.9	12

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19	Size-controlled electrodeposition of Cu nanoparticles on gas diffusion electrodes in methanesulfonic acid solution. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 317-330.	2.9	3
20	Binary icosahedral clusters of hard spheres in spherical confinement. <i>Nature Physics</i> , 2021, 17, 128-134.	16.7	42
21	Ferroelectric Gating of Narrow Band-Gap Nanocrystal Arrays with Enhanced Light-Matter Coupling. <i>ACS Photonics</i> , 2021, 8, 259-268.	6.6	23
22	Halide Perovskite-Lead Chalcogenide Nanocrystal Heterostructures. <i>Journal of the American Chemical Society</i> , 2021, 143, 1435-1446.	13.7	55
23	Deep learning-based denoising for improved dose efficiency in EDX tomography of nanoparticles. <i>Nanoscale</i> , 2021, 13, 12242-12249.	5.6	12
24	Three-dimensional atomic structure of supported Au nanoparticles at high temperature. <i>Nanoscale</i> , 2021, 13, 1770-1776.	5.6	13
25	Understanding and Controlling the Crystallization Process in Reconfigurable Plasmonic Superlattices. <i>ACS Nano</i> , 2021, 15, 4916-4926.	14.6	10
26	Three-Dimensional Nanoparticle Transformations Captured by an Electron Microscope. <i>Accounts of Chemical Research</i> , 2021, 54, 1189-1199.	15.6	13
27	Controlled Alloying of Au@Ag Core-Shell Nanorods Induced by Femtosecond Laser Irradiation. <i>Advanced Optical Materials</i> , 2021, 9, 2002134.	7.3	13
28	Tuning the turnover frequency and selectivity of photocatalytic CO ₂ reduction to CO and methane using platinum and palladium nanoparticles on Ti-Beta zeolites. <i>Chemical Engineering Journal</i> , 2021, 410, 128234.	12.7	17
29	Effectiveness of reducing the influence of CTAB at the surface of metal nanoparticles during in situ heating studies by TEM. <i>Micron</i> , 2021, 144, 103036.	2.2	1
30	Correlating Structure and Detection Properties in HgTe Nanocrystal Films. <i>Nano Letters</i> , 2021, 21, 4145-4151.	9.1	23
31	Shape from projections via differentiable forward projector for computed tomography. <i>Ultramicroscopy</i> , 2021, 224, 113239.	1.9	4
32	Selectivity in the Ligand Functionalization of Photocatalytic Metal Oxide Nanoparticles for Phase Transfer and Self-Assembly Applications. <i>Chemistry - A European Journal</i> , 2021, 27, 9011-9021.	3.3	14
33	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	14.6	705
34	Gold and Silver-Catalyzed Reductive Amination of Aromatic Carboxylic Acids to Benzylic Amines. <i>ACS Catalysis</i> , 2021, 11, 7672-7684.	11.2	18
35	Quantitative 3D real-space analysis of Laves phase supraparticles. <i>Nature Communications</i> , 2021, 12, 3980.	12.8	12
36	Efficient long-range conduction in cable bacteria through nickel protein wires. <i>Nature Communications</i> , 2021, 12, 3996.	12.8	32

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37	3D Atomic-Scale Dynamics of Laser-Light-Induced Restructuring of Nanoparticles Unraveled by Electron Tomography. <i>Advanced Materials</i> , 2021, 33, 2100972.	21.0	10
38	The Influence of Size, Shape, and Twin Boundaries on Heat-Induced Alloying in Individual Au@Ag Core-Shell Nanoparticles. <i>Small</i> , 2021, 17, e2102348.	10.0	10
39	Grain Boundaries as a Diffusion-Limiting Factor in Lithium-Rich NMC Cathodes for High-Energy Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 6777-6786.	5.1	6
40	Fast electron low dose tomography for beam sensitive materials. <i>Microscopy and Microanalysis</i> , 2021, 27, 2116-2118.	0.4	2
41	Enhanced CO ₂ electroreduction with metal-nitrogen-doped carbons in a continuous flow reactor. <i>Journal of CO₂ Utilization</i> , 2021, 50, 101583.	6.8	17
42	From CdSe Nanoplatelets to Quantum Rings by Thermochemical Edge Reconfiguration. <i>Chemistry of Materials</i> , 2021, 33, 6853-6859.	6.7	7
43	Mapping Composition-Selectivity Relationships of Supported Sub-10 nm Cu-Ag Nanocrystals for High-Rate CO ₂ Electroreduction. <i>ACS Nano</i> , 2021, 15, 14858-14872.	14.6	28
44	Nd ³⁺ -Doped Lanthanum Oxychloride Nanocrystals as Nanothermometers. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19887-19896.	3.1	12
45	Spherical core-shell alumina support particles for model platinum catalysts. <i>Nanoscale</i> , 2021, 13, 4221-4232.	5.6	5
46	The design of magneto-plasmonic nanostructures formed by magnetic Prussian Blue-type nanocrystals decorated with Au nanoparticles. <i>Chemical Communications</i> , 2021, 57, 1903-1906.	4.1	6
47	Ultrafast reproducible synthesis of a Ag-nanocluster@MOF composite and its superior visible-photocatalytic activity in batch and in continuous flow. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15704-15713.	10.3	19
48	Inverse heavy-atom effect in near infrared photoluminescent gold nanoclusters. <i>Nanoscale</i> , 2021, 13, 10462-10467.	5.6	6
49	Stabilization effects in binary colloidal Cu and Ag nanoparticle electrodes under electrochemical CO ₂ reduction conditions. <i>Nanoscale</i> , 2021, 13, 4835-4844.	5.6	29
50	Seeded Growth Combined with Cation Exchange for the Synthesis of Anisotropic Cu ₂ S/ZnS, Cu ₂ S, and CuInS ₂ Nanorods. <i>Chemistry of Materials</i> , 2021, 33, 102-116.	6.7	12
51	Kinetic Regulation of the Synthesis of Pentatwinned Gold Nanorods below Room Temperature. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23937-23944.	3.1	9
52	Layer-by-Layer-Stabilized Plasmonic Gold-Silver Nanoparticles on TiO ₂ : Towards Stable Solar Active Photocatalysts. <i>Nanomaterials</i> , 2021, 11, 2624.	4.1	7
53	Al ₂ O ₃ -Supported Transition Metals for Plasma-Catalytic NH ₃ Synthesis in a DBD Plasma: Metal Activity and Insights into Mechanisms. <i>Catalysts</i> , 2021, 11, 1230.	3.5	24
54	Nanoparticle-Mediated <i>In Situ</i> Molecular Reprogramming of Immune Checkpoint Interactions for Cancer Immunotherapy. <i>ACS Nano</i> , 2021, 15, 17549-17564.	14.6	16

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55	Cyan Emission in Two-Dimensional Colloidal Cs ₂ CdCl ₄ :Sb ³⁺ Ruddlesden–Popper Phase Nanoplatelets. ACS Nano, 2021, 15, 17729-17737.	14.6	34
56	Interface Pattern Engineering in Core–Shell Upconverting Nanocrystals: Shedding Light on Critical Parameters and Consequences for the Photoluminescence Properties. Small, 2021, 17, e2104441.	10.0	17
57	Third-Order Nonlinear Optical Properties and Saturation of Two-Photon Absorption in Lead-Free Double Perovskite Nanocrystals under Femtosecond Excitation. ACS Photonics, 2021, 8, 3365-3374.	6.6	30
58	Shape Control Beyond the Seeds in Gold Nanoparticles. Chemistry of Materials, 2021, 33, 9152-9164.	6.7	4
59	3D Atomic Structure of Supported Metallic Nanoparticles Estimated from 2D ADF STEM Images: A Combination of Atom–Counting and a Local Minima Search Algorithm. Small Methods, 2021, 5, e2101150.	8.6	10
60	Optimized 3D Reconstruction of Large, Compact Assemblies of Metallic Nanoparticles. Journal of Physical Chemistry C, 2021, 125, 26240-26246.	3.1	5
61	Interface Pattern Engineering in Core–Shell Upconverting Nanocrystals: Shedding Light on Critical Parameters and Consequences for the Photoluminescence Properties (Small 47/2021). Small, 2021, 17, 2170246.	10.0	0
62	Creation of Exclusive Artificial Cluster Defects by Selective Metal Removal in the (Zn, Zr) Mixed-Metal UiO-66. Journal of the American Chemical Society, 2021, 143, 21511-21518.	13.7	40
63	Defect–Directed Growth of Symmetrically Branched Metal Nanocrystals. Angewandte Chemie - International Edition, 2020, 59, 943-950.	13.8	25
64	Bifunctional Nickel–Nitrogen-Doped-Carbon-Supported Copper Electrocatalyst for CO ₂ Reduction. Journal of Physical Chemistry C, 2020, 124, 1369-1381.	3.1	23
65	Formation of Hollow Gold Nanocrystals by Nanosecond Laser Irradiation. Journal of Physical Chemistry Letters, 2020, 11, 670-677.	4.6	15
66	Nickel-containing N-doped carbon as effective electrocatalysts for the reduction of CO ₂ to CO in a continuous-flow electrolyzer. Sustainable Energy and Fuels, 2020, 4, 1296-1311.	4.9	13
67	Edge stabilization in reduced-dimensional perovskites. Nature Communications, 2020, 11, 170.	12.8	147
68	High-Performance CO ₂ -Selective Hybrid Membranes by Exploiting MOF-Breathing Effects. ACS Applied Materials & Interfaces, 2020, 12, 2952-2961.	8.0	32
69	Defect–Directed Growth of Symmetrically Branched Metal Nanocrystals. Angewandte Chemie, 2020, 132, 953-960.	2.0	3
70	Locating and Controlling the Zn Content in In(Zn)P Quantum Dots. Chemistry of Materials, 2020, 32, 557-565.	6.7	40
71	Alloy CsCd _x Pb _{1-x} Br ₃ Perovskite Nanocrystals: The Role of Surface Passivation in Preserving Composition and Blue Emission. Chemistry of Materials, 2020, 32, 10641-10652.	6.7	45
72	3D Characterization and Plasmon Mapping of Gold Nanorods Welded by Femtosecond Laser Irradiation. ACS Nano, 2020, 14, 12558-12570.	14.6	30

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73	Novel Approaches for Electron Tomography to Investigate the Structure and Stability of Nanomaterials in 3 Dimensions.. Microscopy and Microanalysis, 2020, 26, 1128-1130.	0.4	1
74	3D Atomic Scale Quantification of Nanostructures and their Dynamics Using Model-based STEM. Microscopy and Microanalysis, 2020, 26, 2606-2608.	0.4	1
75	An Expanded Surface-Enhanced Raman Scattering Tags Library by Combinatorial Encapsulation of Reporter Molecules in Metal Nanoshells. ACS Nano, 2020, 14, 14655-14664.	14.6	20
76	Tuning Size and Seed Position in Small Silver Nanorods. , 2020, 2, 1246-1250.		9
77	Luminescent Colloidal InSb Quantum Dots from <i>In Situ</i> Generated Single-Source Precursor. ACS Nano, 2020, 14, 13146-13160.	14.6	28
78	Intracellular Fate of Hydrophobic Nanocrystal Self-Assemblies in Tumor Cells. Advanced Functional Materials, 2020, 30, 2004274.	14.9	18
79	Fast Electron Tomography for Nanomaterials. Journal of Physical Chemistry C, 2020, 124, 27276-27286.	3.1	30
80	Ligand-Mode Directed Selectivity in Cu-Ag Core-Shell Based Gas Diffusion Electrodes for CO ₂ Electroreduction. ACS Catalysis, 2020, 10, 13468-13478.	11.2	24
81	Nanocrystals of Lead Chalcogenides: A Series of Kinetically Trapped Metastable Nanostructures. Journal of the American Chemical Society, 2020, 142, 10198-10211.	13.7	34
82	Direct Correlation of Nanoscale Morphology and Device Performance to Study Photocurrent Generation in Donor-Enriched Phases of Polymer Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 28404-28415.	8.0	7
83	Real-Time Reconstruction of Arbitrary Slices for Quantitative and In Situ 3D Characterization of Nanoparticles. Particle and Particle Systems Characterization, 2020, 37, 2000073.	2.3	12
84	Developing Lattice Matched ZnMgSe Shells on InZnP Quantum Dots for Phosphor Applications. ACS Applied Nano Materials, 2020, 3, 3859-3867.	5.0	23
85	Micelle-directed chiral seeded growth on anisotropic gold nanocrystals. Science, 2020, 368, 1472-1477.	12.6	205
86	C ² -H Arylation of Indoles Catalyzed by Palladium-Containing Metal-Organic Framework in β -Valerolactone. ChemSusChem, 2020, 13, 2786-2791.	6.8	29
87	Plasmonic gold-embedded TiO ₂ thin films as photocatalytic self-cleaning coatings. Applied Catalysis B: Environmental, 2020, 267, 118654.	20.2	61
88	Quantifying Strain and Dislocation Density at Nanocube Interfaces after Assembly and Epitaxy. ACS Applied Materials & Interfaces, 2020, 12, 8788-8794.	8.0	4
89	S,O-Functionalized Metal-Organic Frameworks as Heterogeneous Single-Site Catalysts for the Oxidative Alkenylation of Arenes via C-H activation. ACS Catalysis, 2020, 10, 5077-5085.	11.2	45
90	Self-assembly of Janus Au:Fe ₃ O ₄ branched nanoparticles. From organized clusters to stimuli-responsive nanogel suprastructures. Nanoscale Advances, 2020, 2, 2525-2530.	4.6	10

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91	Improving extracellular vesicles visualization: From static to motion. <i>Scientific Reports</i> , 2020, 10, 6494.	3.3	26
92	Near-Edge Ligand Stripping and Robust Radiative Exciton Recombination in CdSe/CdS Core/Crown Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3339-3344.	4.6	24
93	Mangan-Ädotierung von Perowskit-Änanokristallen: QuanteneinschrÄnkung Aufgrund von Ruddlesden-ÄPopper-ÄDefekten. <i>Angewandte Chemie</i> , 2020, 132, 6860-6865.	2.0	7
94	Manganes-ÄDoping-ÄInduced Quantum Confinement within Host Perovskite Nanocrystals through Ruddlesden-ÄPopper Defects. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6794-6799.	13.8	72
95	Quantification of 3D Atomic Structures and Their Dynamics by Atom-Counting from an ADF STEM Image. <i>Microscopy and Microanalysis</i> , 2019, 25, 1808-1809.	0.4	0
96	Phase Transformation of Superparamagnetic Iron Oxide Nanoparticles via Thermal Annealing: Implications for Hyperthermia Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 4462-4470.	5.0	20
97	Tailoring Cu ⁺ for Ga ³⁺ Cation Exchange in Cu ₂ -ÄxS and CuInS ₂ Nanocrystals by Controlling the Ga Precursor Chemistry. <i>ACS Nano</i> , 2019, 13, 12880-12893.	14.6	28
98	Quantitative 3D Characterization of Elemental Diffusion Dynamics in Individual Ag@Au Nanoparticles with Different Shapes. <i>ACS Nano</i> , 2019, 13, 13421-13429.	14.6	37
99	Unraveling Structural Information of Turkevich Synthesized Plasmonic Gold-ÄSilver Bimetallic Nanoparticles. <i>Small</i> , 2019, 15, e1902791.	10.0	33
100	Pt/ZrO ₂ 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
101	Corrosion protection of Cu by atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, 060902.	2.1	7
102	Phase Transformation Behavior of a Two-ÄDimensional Zeolite. <i>Angewandte Chemie</i> , 2019, 131, 10336-10341.	2.0	1
103	Electron Transfer and Near-Field Mechanisms in Plasmonic Gold-Nanoparticle-Modified TiO ₂ Photocatalytic Systems. <i>ACS Applied Nano Materials</i> , 2019, 2, 4067-4074.	5.0	34
104	Experimental Evaluation of Undersampling Schemes for Electron Tomography of Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900096.	2.3	13
105	Controlled Surface Modification of ZnO Nanostructures with Amorphous TiO ₂ for Photoelectrochemical Water Splitting. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900046.	5.3	15
106	Phase Transformation Behavior of a Two-ÄDimensional Zeolite. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10230-10235.	13.8	3
107	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
108	Surface Functionalization of Grown-on-Tip ZnO Nanopyramids: From Fabrication to Light-Triggered Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15881-15890.	8.0	7

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109	A Titanium(IV)-Based Metal-Organic Framework Featuring Defect-Rich TiO ₂ Sheets as an Oxidative Desulfurization Catalyst. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9160-9165.	13.8	99
110	Understanding CeO ₂ -Based Nanostructures through Advanced Electron Microscopy in 2D and 3D. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800287.	2.3	22
111	Fully Inorganic Ruddlesden-Popper Double Cl ⁻¹ and Triple Cl ⁻¹ Br ⁻¹ Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2019, 31, 2182-2190.	6.7	60
112	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , 2019, 31, e1805580.	21.0	87
113	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
114	Encapsulation of Noble Metal Nanoparticles through Seeded Emulsion Polymerization as Highly Stable Plasmonic Systems. <i>Advanced Functional Materials</i> , 2019, 29, 1809071.	14.9	23
115	LaFeO ₃ Nanofibers for High Detection of Sulfur-Containing Gases. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6023-6032.	6.7	46
116	Single-site metal-organic framework catalysts for the oxidative coupling of arenes <i>via</i> C-H/C-H activation. <i>Chemical Science</i> , 2019, 10, 3616-3622.	7.4	77
117	Highly porous palladium nanodendrites: wet-chemical synthesis, electron tomography and catalytic activity. <i>Dalton Transactions</i> , 2019, 48, 3758-3767.	3.3	25
118	Chemical and Structural Configuration of Pt-Doped Metal Oxide Thin Films Prepared by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2019, 31, 9673-9683.	6.7	8
119	Chemistry of Shape-Controlled Iron Oxide Nanocrystal Formation. <i>ACS Nano</i> , 2019, 13, 152-162.	14.6	58
120	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
121	Controlling the formation and stability of ultra-thin nickel silicides - An alloying strategy for preventing agglomeration. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	21
122	Controlled Growth of Supported ZnO Inverted Nanopyramids with Downward Pointing Tips. <i>Crystal Growth and Design</i> , 2018, 18, 2579-2587.	3.0	10
123	Characterization of silver-polymer core-shell nanoparticles using electron microscopy. <i>Nanoscale</i> , 2018, 10, 9186-9191.	5.6	11
124	Imaging Heterogeneously Distributed Photo-Active Traps in Perovskite Single Crystals. <i>Advanced Materials</i> , 2018, 30, e1705494.	21.0	28
125	Reversible Clustering of Gold Nanoparticles under Confinement. <i>Angewandte Chemie</i> , 2018, 130, 3237-3240.	2.0	19
126	Do Binary Supracrystals Enhance the Crystal Stability?. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13515-13521.	3.1	6

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127	Reversible Clustering of Gold Nanoparticles under Confinement. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3183-3186.	13.8	53
128	Multimode Electron Tomography as a Tool to Characterize the Internal Structure and Morphology of Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13522-13528.	3.1	27
129	The Influence of Acids on Tuning the Pore Size of Mesoporous TiO ₂ Templated by Nonionic Block Copolymers. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 62-65.	2.0	6
130	Interplay of Interfacial Layers and Blend Composition To Reduce Thermal Degradation of Polymer Solar Cells at High Temperature. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3874-3884.	8.0	11
131	Gold nanoclusters with bright near-infrared photoluminescence. <i>Nanoscale</i> , 2018, 10, 3792-3798.	5.6	113
132	Near-Infrared-Emitting CuInS ₂ /ZnS Dot-in-Rod Colloidal Heteronanorods by Seeded Growth. <i>Journal of the American Chemical Society</i> , 2018, 140, 5755-5763.	13.7	45
133	Interplay between Surface Chemistry, Precursor Reactivity, and Temperature Determines Outcome of ZnS Shelling Reactions on CuInS ₂ Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 2400-2413.	6.7	85
134	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
135	Automatic correction of nonlinear damping effects in HAADF-STEM tomography for nanomaterials of discrete compositions. <i>Ultramicroscopy</i> , 2018, 184, 57-65.	1.9	8
136	The Influence of Acids on Tuning the Pore Size of Mesoporous TiO ₂ Templated by Nonionic Block Copolymers. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4932-4932.	2.0	1
137	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
138	Chemical Cutting of Perovskite Nanowires into Single-Photon Emissive Low-Aspect-Ratio CsPbX ₃ (X=Cl, Br, I) Nanorods. <i>Angewandte Chemie</i> , 2018, 130, 16326-16330.	2.0	32
139	Chemical Cutting of Perovskite Nanowires into Single-Photon Emissive Low-Aspect-Ratio CsPbX ₃ (X=Cl, Br, I) Nanorods. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16094-16098.	13.8	79
140	Fe ²⁺ 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
141	On the Control and Effect of Water Content during the Electrodeposition of Ni Nanostructures from Deep Eutectic Solvents. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23129-23142.	3.1	27
142	Interfacial Oxidation and Photoluminescence of InP-Based Core/Shell Quantum Dots. <i>Chemistry of Materials</i> , 2018, 30, 6877-6883.	6.7	78
143	Oxidation barrier of Cu and Fe powder by Atomic Layer Deposition. <i>Surface and Coatings Technology</i> , 2018, 349, 1032-1041.	4.8	12
144	Mono- and Multilayer Silicene-Type Honeycomb Lattices by Oriented Attachment of PbSe Nanocrystals: Synthesis, Structural Characterization, and Analysis of the Disorder. <i>Chemistry of Materials</i> , 2018, 30, 4831-4837.	6.7	34

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145	The role of MOFs in Thin-Film Nanocomposite (TFN) membranes. <i>Journal of Membrane Science</i> , 2018, 563, 938-948.	8.2	99
146	Recent Advances in Transmission Electron Microscopy for Materials Science at the EMAT Lab of the University of Antwerp. <i>Materials</i> , 2018, 11, 1304.	2.9	19
147	Optical enhancement of a printed organic tandem solar cell using diffractive nanostructures. <i>Optics Express</i> , 2018, 26, A240.	3.4	9
148	Deactivation of Sn-Beta during carbohydrate conversion. <i>Applied Catalysis A: General</i> , 2018, 564, 113-122.	4.3	31
149	TiO ₂ Films Modified with Au Nanoclusters as Self-Cleaning Surfaces under Visible Light. <i>Nanomaterials</i> , 2018, 8, 30.	4.1	27
150	Dopant-induced electron localization drives CO ₂ reduction to C ₂ hydrocarbons. <i>Nature Chemistry</i> , 2018, 10, 974-980.	13.6	781
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