

RenÃ© HÃ¼bner

List of Publications by Year in descending order

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257
papers

5,887
citations

76326

40
h-index

118850

62
g-index

262
all docs

262
docs citations

262
times ranked

7305
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of the metal supply pathway on silicon patterning by oblique ion beam sputtering. Applied Surface Science, 2022, 580, 152267.	6.1	6
2	Extraordinary anisotropic magnetoresistance in CaMnO_3 heterostructures. Physical Review B, 2022, 105, .	10.2	1
3	Mid- and far-infrared localized surface plasmon resonances in chalcogen-hyperdoped silicon. Nanoscale, 2022, 14, 2826-2836.	5.6	9
4	Endocytosis is a significant contributor to uranium(VI) uptake in tobacco (Nicotiana tabacum) BY-2 cells in phosphate-deficient culture. Science of the Total Environment, 2022, 823, 153700.	8.0	9
5	Tunable metal hydroxide-organic frameworks for catalysing oxygen evolution. Nature Materials, 2022, 21, 673-680.	27.5	123
6	Defect Nanostructure and its Impact on Magnetism of Cr_2O_3 Thin Films. Small, 2022, 18, e2201228.	10.0	13
7	Self-Supported Three-Dimensional Quantum Dot Aerogels as a Promising Photocatalyst for CO_2 Reduction. Chemistry of Materials, 2022, 34, 2687-2695.	6.7	12
8	Deposition of silicon oxide films on silicon using HelixJet - an atmospheric-pressure plasma jet process below 100°C. Thin Solid Films, 2022, 753, 139257.	1.8	2
9	Expanding the Range: AuCu Metal Aerogels from H ₂ O and EtOH. Catalysts, 2022, 12, 441.	3.5	3
10	Controllable electrostatic manipulation of structure building blocks in noble metal aerogels. Materials Advances, 2022, 3, 5760-5771.	5.4	6
11	Focussing and defocussing effects at radio frequency glow discharge optical emission spectroscopy analyses of thin films with partly nonconductive components. International Journal of Materials Research, 2022, 96, 983-987.	0.3	2
12	Magnetism and Magnetoelectricity of Textured Polycrystalline Bulk Cr_2O_3 Sintered in Conditions Far out of Equilibrium. ACS Applied Electronic Materials, 2022, 4, 2943-2952.	4.3	5
13	Peptidoglycan as major binding motif for Uranium bioassociation on Magnetospirillum magneticum AMB-1 in contaminated waters. Journal of Hazardous Materials, 2022, 437, 129376.	12.4	3
14	Artificially sporulated Escherichia coli cells as a robust cell factory for interfacial biocatalysis. Nature Communications, 2022, 13, .	12.8	22
15	A comprehensive study on the interaction of Eu(III) and U(VI) with plant cells (Daucus carota) in suspension. Journal of Hazardous Materials, 2022, 439, 129520.	12.4	6
16	CO_2 Electroreduction on Unsupported PdPt Aerogels: Effects of Alloying and Surface Composition on Product Selectivity. ACS Applied Energy Materials, 2022, 5, 8460-8471.	5.1	16
17	Effect of nanoscale surface topography on the adsorption of globular proteins. Applied Surface Science, 2021, 535, 147671.	6.1	21
18	A Roadmap for 3D Metal Aerogels: Materials Design and Application Attempts. Matter, 2021, 4, 54-94.	10.0	60

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19	Mechanosynthesis of polymer-stabilized lead bromide perovskites: insight into the formation and phase conversion of nanoparticles. Nano Research, 2021, 14, 1078-1086.	10.4	8
20	Nanoparticle-Stabilized Perforated Lamellar Morphology in Block Copolymer/Quantum Dot Hybrids. Macromolecules, 2021, 54, 1216-1223.	4.8	8
21	Rapid synthesis of goldâ€“palladium coreâ€“shell aerogels for selective and robust electrochemical CO ₂ reduction. Journal of Materials Chemistry A, 2021, 9, 17189-17197.	10.3	32
22	Insight into the structureâ€“property relationship of UO ₂ nanoparticles. Inorganic Chemistry Frontiers, 2021, 8, 1102-1110.	6.0	12
23	Î±-V ₂ O ₅ -Specific Gold Nanoparticles for Fluorescence Imaging of Tumor Angiogenesis. Nanomaterials, 2021, 11, 138.	4.1	7
24	Dependence of the damage in optical metal/dielectric coatings on the energy of ions in irradiation experiments for space qualification. Scientific Reports, 2021, 11, 3429.	3.3	12
25	Local and nonlocal spin Seebeck effect in lateral Ptâ€“Cr ₂ O ₃ â€“Pt devices at low temperatures. APL Materials, 2021, 9, .	5.1	13
26	Stress-controlled zero-field spin splitting in silicon carbide. Applied Physics Letters, 2021, 118, .	3.3	12
27	Stress distribution at the AlN/SiC heterointerface probed by Raman spectroscopy. Journal of Applied Physics, 2021, 129, .	2.5	7
28	Phase Selection in Mnâ€“Si Alloys by Fast Solidâ€“State Reaction with Enhanced Skyrmion Stability. Advanced Functional Materials, 2021, 31, 2009723.	14.9	9
29	Efficient and low-voltage vertical organic permeable base light-emitting transistors. Nature Materials, 2021, 20, 1007-1014.	27.5	36
30	A Robust PtNi Nanoframe/Nâ€“Doped Graphene Aerogel Electrocatalyst with Both High Activity and Stability. Angewandte Chemie - International Edition, 2021, 60, 9590-9597.	13.8	88
31	A Robust PtNi Nanoframe/Nâ€“Doped Graphene Aerogel Electrocatalyst with Both High Activity and Stability. Angewandte Chemie, 2021, 133, 9676-9683.	2.0	9
32	Bioassociation of U(VI) and Eu(III) by Plant (<i>Brassica napus</i>) Suspension Cell Culturesâ€“A Spectroscopic Investigation. Environmental Science & Technology, 2021, 55, 6718-6728.	10.0	10
33	Simultaneous Ligand and Cation Exchange of Colloidal CdSe Nanoplatelets toward PbSe Nanoplatelets for Application in Photodetectors. Journal of Physical Chemistry Letters, 2021, 12, 5214-5220.	4.6	13
34	Enhanced Photoluminescence of Gold Nanoparticleâ€“Quantum Dot Hybrids Confined in Hairy Polymer Nanofibers. ChemNanoMat, 2021, 7, 831-841.	2.8	5
35	Impact of the Microbial Origin and Active Microenvironment on the Shape of Biogenic Elemental Selenium Nanomaterials. Environmental Science & Technology, 2021, 55, 9161-9171.	10.0	1
36	Uranium(VI) bioassociation by different fungi â€“ a comparative study into molecular processes. Journal of Hazardous Materials, 2021, 411, 125068.	12.4	14

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37	Sizeâ€Tunable Gold Aerogels: A Durable and Misfocusâ€Tolerant 3D Substrate for Multiplex SERS Detection. <i>Advanced Optical Materials</i> , 2021, 9, 2100352.	7.3	24
38	Tungsten Oxide/Reduced Graphene Oxide Aerogel with Lowâ€Content Platinum as Highâ€Performance Electrocatalyst for Hydrogen Evolution Reaction. <i>Small</i> , 2021, 17, e2102159.	10.0	24
39	Integrated complementary inverters and ring oscillators based on vertical-channel dual-base organic thin-film transistors. <i>Nature Electronics</i> , 2021, 4, 588-594.	26.0	28
40	Fluorination of graphene leads to susceptibility for nanopore formation by highly charged ion impact. <i>Physical Review Materials</i> , 2021, 5, .	2.4	7
41	B20-type FeGe on Ge(1 0 0) prepared by pulsed laser melting. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 532, 167981.	2.3	1
42	Formation, structure, and optical properties of copper chromite thin films for high-temperature solar absorbers. <i>Materialia</i> , 2021, 18, 101156.	2.7	4
43	B20â€MnSi films grown on Si(100) substrates with magnetic skyrmion signature. <i>Materials Today Physics</i> , 2021, 21, 100541.	6.0	2
44	Effects of hydrogen absorption on magnetism in Ni80Fe20/Y/Pd trilayers. <i>Physical Review B</i> , 2021, 104, .	3.2	2
45	Near-Infrared-Emitting Cd<i>x</i>_x/i>Hg_{1â€<i>x</i>}Se-Based Core/Shell Nanoplatelets. <i>Chemistry of Materials</i> , 2021, 33, 7693-7702.	6.7	11
46	Phase evolution of Te-hyperdoped Si upon furnace annealing. <i>Applied Surface Science</i> , 2021, 567, 150755.	6.1	6
47	Metal-induced progressive alteration of conducting states in memristors for implementing an efficient analog memory: a DFT-supported experimental approach. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3136-3144.	5.5	2
48	Chlorine doping of MoSe₂ flakes by ion implantation. <i>Nanoscale</i> , 2021, 13, 5834-5846.	5.6	21
49	Siliconâ€Based Intermediateâ€Band Infrared Photodetector Realized by Te Hyperdoping. <i>Advanced Optical Materials</i> , 2021, 9, 2001546.	7.3	19
50	Substitutional synthesis of sub-nanometer InGaN/GaN quantum wells with high indium content. <i>Scientific Reports</i> , 2021, 11, 20606.	3.3	9
51	Electrical Characterization of Germanium Nanowires Using a Symmetric Hall Bar Configuration: Size and Shape Dependence. <i>Nanomaterials</i> , 2021, 11, 2917.	4.1	5
52	High electron mobility in strained GaAs nanowires. <i>Nature Communications</i> , 2021, 12, 6642.	12.8	28
53	Structural Templating of an Organic Solar Cell Absorber by Ellagic Acid To Tune Its Aggregation, Molecular Orientation, and Optical Properties. <i>ACS Applied Energy Materials</i> , 2021, 4, 14273-14286.	5.1	3
54	Controlled Silicidation of Silicon Nanowires Using Flash Lamp Annealing. <i>Langmuir</i> , 2021, , .	3.5	4

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55	Effect of Temperature and Cell Viability on Uranium Biomineralization by the Uranium Mine Isolate <i>Penicillium simplicissimum</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 802926.	3.5	6
56	<i>Bacillus safensis</i> JG-B5T affects the fate of selenium by extracellular production of colloiddally less stable selenium nanoparticles. <i>Journal of Hazardous Materials</i> , 2020, 384, 121146.	12.4	31
57	Engineering Selfâ€Supported Noble Metal Foams Toward Electrocatalysis and Beyond. <i>Advanced Energy Materials</i> , 2020, 10, 1901945.	19.5	89
58	Directionality of metal-induced crystallization and layer exchange in amorphous carbon/nickel thin film stacks. <i>Carbon</i> , 2020, 159, 656-667.	10.3	7
59	Highly ordered silicide ripple patterns induced by medium-energy ion irradiation. <i>Physical Review B</i> , 2020, 102, .	3.2	6
60	Higher-order ferromagnetic resonances in out-of-plane saturated Co/Au magnetic multilayers. <i>Physical Review B</i> , 2020, 102, .	3.2	10
61	Tailoring Particleâ€Enzyme Nanoconjugates for Biocatalysis at the Organicâ€Organic Interface. <i>ChemSusChem</i> , 2020, 13, 6523-6527.	6.8	9
62	Disturbance-Promoted Unconventional and Rapid Fabrication of Self-Healable Noble Metal Gels for (Photo-)Electrocatalysis. <i>Matter</i> , 2020, 2, 908-920.	10.0	49
63	RÄ¼cktitelbild: Freezeâ€Thawâ€Promoted Fabrication of Clean and Hierarchically Structured Nobleâ€Metal Aerogels for Electrocatalysis and Photoelectrocatalysis (<i>Angew. Chem.</i> 21/2020). <i>Angewandte Chemie</i> , 2020, 132, 8379-8379.	2.0	0
64	Highâ€Performance Bismuthâ€Doped Nickel Aerogel Electrocatalyst for the Methanol Oxidation Reaction. <i>Angewandte Chemie</i> , 2020, 132, 13995-14003.	2.0	22
65	Unraveling Structure and Device Operation of Organic Permeable Base Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000230.	5.1	11
66	Increasing the Diversity and Understanding of Semiconductor Nanoplatelets by Colloidal Atomic Layer Deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000282.	2.4	5
67	Subâ€10â€nm Radiolabeled Barium Sulfate Nanoparticles as Carriers for Theranostic Applications and Targeted Alpha Therapy. <i>ChemistryOpen</i> , 2020, 9, 797-805.	1.9	16
68	Freezeâ€Thawâ€Promoted Fabrication of Clean and Hierarchically Structured Nobleâ€Metal Aerogels for Electrocatalysis and Photoelectrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8293-8300.	13.8	56
69	Freezeâ€Thawâ€Promoted Fabrication of Clean and Hierarchically Structured Nobleâ€Metal Aerogels for Electrocatalysis and Photoelectrocatalysis. <i>Angewandte Chemie</i> , 2020, 132, 8370-8377.	2.0	13
70	Unveiling reductant chemistry in fabricating noble metal aerogels for superior oxygen evolution and ethanol oxidation. <i>Nature Communications</i> , 2020, 11, 1590.	12.8	106
71	Towards Scalable Reconfigurable Field Effect Transistor using Flash Lamp Annealing. , 2020, , .		2
72	General Colloidal Synthesis of Transition-Metal Disulfide Nanomaterials as Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13148-13155.	8.0	25

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73	Hollow Au@TiO ₂ porous electrospun nanofibers for catalytic applications. RSC Advances, 2020, 10, 6592-6602.	3.6	12
74	Engineering Multimetallic Aerogels for pH-Universal HER and ORR Electrocatalysis. Advanced Energy Materials, 2020, 10, 1903857.	19.5	83
75	Tchnetium retention by gamma alumina nanoparticles and the effect of sorbed Fe ²⁺ . Journal of Hazardous Materials, 2020, 388, 122066.	12.4	14
76	Promoting the Electrocatalytic Performance of Noble Metal Aerogels by Ligand-Directed Modulation. Angewandte Chemie - International Edition, 2020, 59, 5706-5711.	13.8	58
77	Formation of Thin NiGe Films by Magnetron Sputtering and Flash Lamp Annealing. Nanomaterials, 2020, 10, 648.	4.1	3
78	High-Performance Bismuth-Doped Nickel Aerogel Electrocatalyst for the Methanol Oxidation Reaction. Angewandte Chemie - International Edition, 2020, 59, 13891-13899.	13.8	179
79	Electron Concentration Limit in Ge Doped by Ion Implantation and Flash Lamp Annealing. Materials, 2020, 13, 1408.	2.9	6
80	The role of boron on exchange coupling in NiFe/RuB/FeCo trilayer structures. Journal of Applied Physics, 2020, 127, .	2.5	2
81	Promoting the Electrocatalytic Performance of Noble Metal Aerogels by Ligand-Directed Modulation. Angewandte Chemie, 2020, 132, 5755-5760.	2.0	14
82	Tunable Magnetic Vortex Dynamics in Ion-Implanted Permalloy Disks. ACS Applied Materials & Interfaces, 2020, 12, 27812-27818.	8.0	8
83	Low damping and microstructural perfection of sub-40nm-thin yttrium iron garnet films grown by liquid phase epitaxy. Physical Review Materials, 2020, 4, .	2.4	49
84	All-THz pump-probe spectroscopy of the intersubband AC-Stark effect in a wide GaAs quantum well. Optics Express, 2020, 28, 25358.	3.4	2
85	Dissolution of donor-vacancy clusters in heavily doped n-type germanium. New Journal of Physics, 2020, 22, 123036.	2.9	4
86	Emerging Noble Metal Aerogels: State of the Art and a Look Forward. Matter, 2019, 1, 39-56.	10.0	84
87	Phase Selectivity in Cr and N Co-Doped TiO ₂ Films by Modulated Sputter Growth and Post-Deposition Flash-Lamp-Annealing. Coatings, 2019, 9, 448.	2.6	3
88	Nanoscale n++-p junction formation in GeOI probed by tip-enhanced Raman spectroscopy and conductive atomic force microscopy. Journal of Applied Physics, 2019, 125, 245703.	2.5	5
89	Diffusion of Phosphorus and Boron from Atomic Layer Deposition Oxides into Silicon. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900306.	1.8	4
90	Ligand-Exchange-Mediated Fabrication of Gold Aerogels Containing Different Au(I) Content with Peroxidase-like Behavior. Chemistry of Materials, 2019, 31, 10094-10099.	6.7	26

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91	Effective Hexagonal Boron Nitride Passivation of Few-Layered InSe and GaSe to Enhance Their Electronic and Optical Properties. ACS Applied Materials & Interfaces, 2019, 11, 43480-43487.	8.0	44
92	Pump " probe THz spectroscopy study of electronic properties of semiconductor nanowires. , 2019, , .		1
93	Reconfigurable Spin-Wave Nonreciprocity Induced by Dipolar Interaction in a Coupled Ferromagnetic Bilayer. Physical Review Applied, 2019, 12, .	3.8	77
94	Enzymes Immobilized on Carbon Nitride (C ₃ N ₄) Cooperating with Metal Nanoparticles for Cascade Catalysis. Advanced Materials Interfaces, 2019, 6, 1801664.	3.7	25
95	Nanomagnetism of Magnetoelectric Granular Thin-Film Antiferromagnets. Nano Letters, 2019, 19, 1682-1687.	9.1	45
96	Observation of multiple magnetic phases and complex nanostructures in Co implanted amorphous carbon films. Journal of Physics and Chemistry of Solids, 2019, 127, 158-163.	4.0	6
97	Specific ion effects directed noble metal aerogels: Versatile manipulation for electrocatalysis and beyond. Science Advances, 2019, 5, eaaw4590.	10.3	87
98	Colloidal Mercury-Doped CdSe Nanoplatelets with Dual Fluorescence. Chemistry of Materials, 2019, 31, 5065-5074.	6.7	29
99	Widely tunable GaAs bandgap via strain engineering in core/shell nanowires with large lattice mismatch. Nature Communications, 2019, 10, 2793.	12.8	78
100	"Box"Profile"™ Ion Implants as Geochemical Reference Materials for Electron Probe Microanalysis and Secondary Ion Mass Spectrometry. Geostandards and Geoanalytical Research, 2019, 43, 531-541.	3.1	5
101	Preparation of non-oxidized Ge quantum dot lattices in amorphous Al ₂ O ₃ , Si ₃ N ₄ and SiC matrices. Nanotechnology, 2019, 30, 335601.	2.6	14
102	Silver Particles with Rhombicuboctahedral Shape and Effective Isotropic Interactions with Light. Chemistry of Materials, 2019, 31, 2822-2827.	6.7	9
103	Vertical Organic Thin-Film Transistors with an Anodized Permeable Base for Very Low Leakage Current. Advanced Materials, 2019, 31, e1900917.	21.0	21
104	Structure-property relationship of Co ₂ MnSi thin films in response to He ⁺ -irradiation. Scientific Reports, 2019, 9, 2766.	3.3	5
105	Effect of insertion layer on electrode properties in magnetic tunnel junctions with a zero-moment half-metal. Scientific Reports, 2019, 9, 4020.	3.3	5
106	Facile preparation of radium-doped, functionalized nanoparticles as carriers for targeted alpha therapy. Inorganic Chemistry Frontiers, 2019, 6, 1341-1349.	6.0	26
107	A material experiment for small satellites to characterise the behaviour of carbon nanotubes in space " development and ground validation. Advances in Space Research, 2019, 63, 2312-2321.	2.6	4
108	Nonlinear plasmonic response of doped nanowires observed by infrared nanospectroscopy. Nanotechnology, 2019, 30, 084003.	2.6	10

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109	Ultra-fast annealing manipulated spinodal nano-decomposition in Mn-implanted Ge. Nanotechnology, 2019, 30, 054001.	2.6	6
110	Thermal stability of Te-hyperdoped Si: Atomic-scale correlation of the structural, electrical, and optical properties. Physical Review Materials, 2019, 3, .	2.4	13
111	Superconductivity in single-crystalline aluminum- and gallium-hyperdoped germanium. Physical Review Materials, 2019, 3, .	2.4	7
112	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -type codoping effect in (Ga,Mn)As: Mn lattice location versus magnetic properties. Physical Review Materials, 2019, 3, .	2.4	2
113	Electronic phase separation in insulating (Ga, Mn) As with low compensation: super-paramagnetism and hopping conduction. Journal of Physics Condensed Matter, 2018, 30, 095801.	1.8	5
114	Magnetic properties of Co/Ni grain boundaries after annealing. AIP Advances, 2018, 8, 056318.	1.3	2
115	Facile preparation of multifunctionalisable "stealth" upconverting nanoparticles for biomedical applications. Dalton Transactions, 2018, 47, 8595-8604.	3.3	26
116	Laser-Rewritable Ferromagnetism at Thin-Film Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 15232-15239.	8.0	32
117	CMOS-compatible Controlled Hyperdoping of Silicon Nanowires. Advanced Materials Interfaces, 2018, 5, 1800101.	3.7	11
118	Rapid Synthesis of Sub-10-nm Hexagonal NaYF ₄ -Based Upconverting Nanoparticles using Thermanol [®] . ChemistryOpen, 2018, 7, 159-168.	1.9	18
119	Kern-Schale-Strukturierung rein metallischer Aerogele für eine hocheffiziente Nutzung von Platin für die Sauerstoffreduktion. Angewandte Chemie, 2018, 130, 3014-3018.	2.0	7
120	Core-Shell Structuring of Pure Metallic Aerogels towards Highly Efficient Platinum Utilization for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2018, 57, 2963-2966.	13.8	154
121	Plasmonic nanoparticles embedded in single crystals synthesized by gold ion implantation for enhanced optical nonlinearity and efficient Q-switched lasing. Nanoscale, 2018, 10, 4228-4236.	5.6	53
122	On the insulator-to-metal transition in titanium-implanted silicon. Scientific Reports, 2018, 8, 4164.	3.3	17
123	Biotransformation and detoxification of selenite by microbial biogenesis of selenium-sulfur nanoparticles. Journal of Hazardous Materials, 2018, 344, 749-757.	12.4	62
124	Pt and Au bimetallic and monometallic nanostructured amperometric sensors for direct detection of hydrogen peroxide: Influences of bimetallic effect and silica support. Sensors and Actuators B: Chemical, 2018, 255, 1325-1334.	7.8	65
125	Ultra-dense planar metallic nanowire arrays with extremely large anisotropic optical and magnetic properties. Nano Research, 2018, 11, 3519-3528.	10.4	18
126	Microstructure and charge trapping in ZrO ₂ - and Si ₃ N ₄ -based superlattice layer systems with Ge nanoparticles. Thin Solid Films, 2018, 645, 124-128.	1.8	3

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127	Mechanical Properties of Metal Oxide Aerogels. <i>Chemistry of Materials</i> , 2018, 30, 145-152.	6.7	49
128	The role of incidence angle in the morphology evolution of Ge surfaces irradiated by medium-energy Au ions. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 324001.	1.8	5
129	Alloys via Sn	3.8	17
130	Epitaxial Mn_5Ge_3 (100) layer on Ge (100) substrates obtained by flash lamp annealing. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	14
131	Site-controlled formation of single Si nanocrystals in a buried SiO_2 matrix using ion beam mixing. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2883-2892.	2.8	14
132	Carbon doping controlled thermoluminescent defect centers in nanoporous alumina for ion beam dosimetry. <i>Journal of Applied Physics</i> , 2018, 124, 134902.	2.5	5
133	Alkyl Branching Position in Diketopyrrolopyrrole Polymers: Interplay between Fibrillar Morphology and Crystallinity and Their Effect on Photogeneration and Recombination in Bulk-Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 6801-6809.	6.7	13
134	Metabolism-dependent bioaccumulation of uranium by <i>Rhodospiridium toruloides</i> isolated from the flooding water of a former uranium mine. <i>PLoS ONE</i> , 2018, 13, e0201903.	2.5	26
135	Surface-Functionalized Mesoporous Nanoparticles as Heterogeneous Supports To Transfer Bifunctional Catalysts into Organic Solvents for Tandem Catalysis. <i>ACS Applied Nano Materials</i> , 2018, 1, 6378-6386.	5.0	28
136	Morphological and Functional Modifications of Optical Thin Films for Space Applications Irradiated with Low-Energy Helium Ions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34781-34791.	8.0	17
137	Percolated $\text{Si}:\text{SiO}_2$ Nanocomposites: Oven- vs. Millisecond Laser-Induced Crystallization of SiO_x Thin Films. <i>Nanomaterials</i> , 2018, 8, 525.	4.1	6
138	Formation of n- and p-type regions in individual Si/SiO_2 core/shell nanowires by ion beam doping. <i>Nanotechnology</i> , 2018, 29, 474001.	2.6	6
139	Extended Infrared Photoresponse in Te -Hyperdoped Si at Room Temperature. <i>Physical Review Applied</i> , 2018, 10,	3.8	45
140	Network-like arrangement of mixed-valence uranium oxide nanoparticles after glutathione-induced reduction of uranium (U^{VI}). <i>Chemical Communications</i> , 2018, 54, 8697-8700.	4.1	8
141	Cluster Tool for In Situ Processing and Comprehensive Characterization of Thin Films at High Temperatures. <i>Analytical Chemistry</i> , 2018, 90, 7837-7842.	6.5	5
142	Large-scale self-organized gold nanostructures with bidirectional plasmon resonances for SERS. <i>RSC Advances</i> , 2018, 8, 22569-22576.	3.6	28
143	Three-Dimensional Composition and Electric Potential Mapping of III-V Core-Shell Multishell Nanowires by Correlative STEM and Holographic Tomography. <i>Nano Letters</i> , 2018, 18, 4777-4784.	9.1	27
144	Ag nanoparticles embedded in Nd:YAG crystals irradiated with tilted beam of 200 MeV Xe ions: optical dichroism correlated to particle reshaping. <i>Nanotechnology</i> , 2018, 29, 424001.	2.6	5

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145	Nematicity of correlated systems driven by anisotropic chemical phase separation. <i>Physical Review Materials</i> , 2018, 2, .	2.4	9
146	Collision cascades enhanced hydrogen redistribution in cobalt implanted hydrogenated diamond-like carbon films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 394, 6-11.	1.4	7
147	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2017, 29, 1605254.	21.0	98
148	Effect of Acid Washing on the Oxygen Reduction Reaction Activity of Pt-Cu Aerogel Catalysts. <i>Electrochimica Acta</i> , 2017, 233, 210-217.	5.2	24
149	Shape change of biogenic elemental selenium nanomaterials from nanospheres to nanorods decreases their colloidal stability. <i>Environmental Science: Nano</i> , 2017, 4, 1054-1063.	4.3	33
150	Strain and particle size analysis in ion beam synthesized SiC nanoparticles using Raman scattering studies. <i>Crystal Research and Technology</i> , 2017, 52, 1600391.	1.3	3
151	Self-assembly of magnetic nanoclusters in diamond-like carbon by diffusion processes enhanced by collision cascades. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	10
152	Discrete Single Crystalline Titanium Oxide Nanoparticle Formation from a Two-Dimensional Nanowelded Network. <i>Crystal Growth and Design</i> , 2017, 17, 2660-2666.	3.0	16
153	Giant Enhancement of Nonlinear Optical Response in Nd:YAG Single Crystals by Embedded Silver Nanoparticles. <i>ACS Omega</i> , 2017, 2, 1279-1286.	3.5	32
154	Room-temperature short-wavelength infrared Si photodetector. <i>Scientific Reports</i> , 2017, 7, 43688.	3.3	79
155	Purely antiferromagnetic magnetoelectric random access memory. <i>Nature Communications</i> , 2017, 8, 13985.	12.8	217
156	In-chip microstructures and photonic devices fabricated by nonlinear laser lithography deep inside silicon. <i>Nature Photonics</i> , 2017, 11, 639-645.	31.4	101
157	Role of internal demagnetizing field for the dynamics of a surface-modulated magnonic crystal. <i>Physical Review B</i> , 2017, 95, .	3.2	20
158	Tri(pyrazolyl)phosphane als Vorstufen für die Synthese von stark emittierenden InP/ZnS-Quantenpunkten. <i>Angewandte Chemie</i> , 2017, 129, 14932-14937.	2.0	2
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