

# 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	Purely antiferromagnetic magnetoelectric random access memory. <i>Nature Communications</i> , 2017, 8, 13985.	12.8	217
2	High-performance Bismuth-doped Nickel Aerogel Electrocatalyst for the Methanol Oxidation Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13891-13899.	13.8	179
3	Extracellular Polymeric Substances Govern the Surface Charge of Biogenic Elemental Selenium Nanoparticles. <i>Environmental Science &amp; Technology</i> , 2015, 49, 1713-1720.	10.0	158
4	Core-shell Structuring of Pure Metallic Aerogels towards Highly Efficient Platinum Utilization for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2963-2966.	13.8	154
5	Tunable metal hydroxide-organic frameworks for catalysing oxygen evolution. <i>Nature Materials</i> , 2022, 21, 673-680.	27.5	123
6	Adsorption of zinc by biogenic elemental selenium nanoparticles. <i>Chemical Engineering Journal</i> , 2015, 260, 855-863.	12.7	119
7	Exploiting Memristive BiFeO <sub>3</sub> Bilayer Structures for Compact Sequential Logics. <i>Advanced Functional Materials</i> , 2014, 24, 3357-3365.	14.9	116
8	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
9	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
10	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2017, 29, 1605254.	21.0	98
11	Engineering Self-supported Noble Metal Foams Toward Electrocatalysis and Beyond. <i>Advanced Energy Materials</i> , 2020, 10, 1901945.	19.5	89
12	A Robust PtNi Nanoframe/N-doped Graphene Aerogel Electrocatalyst with Both High Activity and Stability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9590-9597.	13.8	88
13	Specific ion effects directed noble metal aerogels: Versatile manipulation for electrocatalysis and beyond. <i>Science Advances</i> , 2019, 5, eaaw4590.	10.3	87
14	Selenium(IV) Uptake by Maghemite (Î³-Fe <sub>2</sub> O <sub>3</sub> ). <i>Environmental Science &amp; Technology</i> , 2014, 48, 1665-1674.	10.0	86
15	Emerging Noble Metal Aerogels: State of the Art and a Look Forward. <i>Matter</i> , 2019, 1, 39-56.	10.0	84
16	Engineering Multimetallic Aerogels for pH-universal HER and ORR Electrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 1903857.	19.5	83
17	Self-Supporting Hierarchical Porous PtAg Alloy Nanotubular Aerogels as Highly Active and Durable Electrocatalysts. <i>Chemistry of Materials</i> , 2016, 28, 6477-6483.	6.7	81
18	Printing Nearly-Discrete Magnetic Patterns Using Chemical Disorder Induced Ferromagnetism. <i>Nano Letters</i> , 2014, 14, 435-441.	9.1	79

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19	Room-temperature short-wavelength infrared Si photodetector. <i>Scientific Reports</i> , 2017, 7, 43688.	3.3	79
20	Widely tunable GaAs bandgap via strain engineering in core/shell nanowires with large lattice mismatch. <i>Nature Communications</i> , 2019, 10, 2793.	12.8	78
21	Reconfigurable Spin-Wave Nonreciprocity Induced by Dipolar Interaction in a Coupled Ferromagnetic Bilayer. <i>Physical Review Applied</i> , 2019, 12, .	3.8	77
22	Electrochemical behavior of nanocrystalline Ta/TaN multilayer on 316L stainless steel: Novel bipolar plates for proton exchange membrane fuel-cells. <i>Journal of Power Sources</i> , 2016, 322, 1-9.	7.8	74
23	Pt and Au bimetallic and monometallic nanostructured amperometric sensors for direct detection of hydrogen peroxide: Influences of bimetallic effect and silica support. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1325-1334.	7.8	65
24	Structure and thermal stability of graded Ta-TaN diffusion barriers between Cu and SiO <sub>2</sub> . <i>Thin Solid Films</i> , 2003, 437, 248-256.	1.8	64
25	Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. <i>Chemical Engineering Journal</i> , 2016, 284, 917-925.	12.7	62
26	Biotransformation and detoxification of selenite by microbial biogenesis of selenium-sulfur nanoparticles. <i>Journal of Hazardous Materials</i> , 2018, 344, 749-757.	12.4	62
27	A Roadmap for 3D Metal Aerogels: Materials Design and Application Attempts. <i>Matter</i> , 2021, 4, 54-94.	10.0	60
28	Promoting the Electrocatalytic Performance of Noble Metal Aerogels by Ligand-Directed Modulation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5706-5711.	13.8	58
29	Freeze-Thaw-Promoted Fabrication of Clean and Hierarchically Structured Noble-Metal Aerogels for Electrocatalysis and Photoelectrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8293-8300.	13.8	56
30	Plasmonic nanoparticles embedded in single crystals synthesized by gold ion implantation for enhanced optical nonlinearity and efficient Q-switched lasing. <i>Nanoscale</i> , 2018, 10, 4228-4236.	5.6	53
31	Forming-Free Resistive Switching in Multiferroic BiFeO <sub>3</sub> thin Films with Enhanced Nanoscale Shunts. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12764-12771.	8.0	50
32	Mechanical Properties of Metal Oxide Aerogels. <i>Chemistry of Materials</i> , 2018, 30, 145-152.	6.7	49
33	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
34	Low damping and microstructural perfection of sub-40nm-thin yttrium iron garnet films grown by liquid phase epitaxy. <i>Physical Review Materials</i> , 2020, 4, .	2.4	49
35	Faceted nanostructure arrays with extreme regularity by self-assembly of vacancies. <i>Nanoscale</i> , 2015, 7, 18928-18935.	5.6	45
36	Extended Infrared Photoresponse in $\text{Te-Hyperdoped Si}$ at Room Temperature. <i>Physical Review Applied</i> , 2018, 10, .	3.8	45

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37	Nanomagnetism of Magnetoelectric Granular Thin-Film Antiferromagnets. Nano Letters, 2019, 19, 1682-1687.	9.1	45
38	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
39	Influence of nitrogen content on the crystallization behavior of thin TaSiN diffusion barriers. Thin Solid Films, 2004, 468, 183-192.	1.8	40
40	Silicide induced ion beam patterning of Si(001). Nanotechnology, 2014, 25, 115303.	2.6	40
41	Higher Cd adsorption on biogenic elemental selenium nanoparticles. Environmental Chemistry Letters, 2016, 14, 381-386.	16.2	40
42	Spin transport in tantalum studied using magnetic single and double layers. Physical Review B, 2016, 94, .	3.2	40
43	Origin of perpendicular magnetic anisotropy in Co/Ni multilayers. Physical Review B, 2017, 96, .	3.2	37
44	The origin of conductivity in ion-irradiated diamond-like carbon – Phase transformation and atomic ordering. Carbon, 2014, 80, 677-690.	10.3	36
45	Efficient and low-voltage vertical organic permeable base light-emitting transistors. Nature Materials, 2021, 20, 1007-1014.	27.5	36
46	Direct Depth- and Lateral- Imaging of Nanoscale Magnets Generated by Ion Impact. Scientific Reports, 2015, 5, 16786.	3.3	35
47	Shape change of biogenic elemental selenium nanomaterials from nanospheres to nanorods decreases their colloidal stability. Environmental Science: Nano, 2017, 4, 1054-1063.	4.3	33
48	Giant Enhancement of Nonlinear Optical Response in Nd:YAG Single Crystals by Embedded Silver Nanoparticles. ACS Omega, 2017, 2, 1279-1286.	3.5	32
49	Laser-Rewritable Ferromagnetism at Thin-Film Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 15232-15239.	8.0	32
50	Rapid synthesis of gold-palladium core-shell aerogels for selective and robust electrochemical CO <sub>2</sub> reduction. Journal of Materials Chemistry A, 2021, 9, 17189-17197.	10.3	32
51	Defect-induced magnetism in SiC: Interplay between ferromagnetism and paramagnetism. Physical Review B, 2015, 92, .	3.2	31
52	Bacillus safensis JG-B5T affects the fate of selenium by extracellular production of colloidally less stable selenium nanoparticles. Journal of Hazardous Materials, 2020, 384, 121146.	12.4	31
53	Quantitative ARXPS investigation of systems with ultrathin aluminium oxide layers. Surface and Interface Analysis, 2004, 36, 1600-1608.	1.8	30
54	Colloidal Mercury-Doped CdSe Nanoplatelets with Dual Fluorescence. Chemistry of Materials, 2019, 31, 5065-5074.	6.7	29

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55	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
56	Large-scale self-organized gold nanostructures with bidirectional plasmon resonances for SERS. <i>RSC Advances</i> , 2018, 8, 22569-22576.	3.6	28
57	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
58	Interplay between localization and magnetism in (Ga,Mn)As and (In,Mn)As. <i>Physical Review Materials</i> , 2017, 1, .	2.4	28
59	High electron mobility in strained GaAs nanowires. <i>Nature Communications</i> , 2021, 12, 6642.	12.8	28
60	Three-Dimensional Composition and Electric Potential Mapping of IIIâ€V Coreâ€Multishell Nanowires by Correlative STEM and Holographic Tomography. <i>Nano Letters</i> , 2018, 18, 4777-4784.	9.1	27
61	X-ray absorption near-edge structure of hexagonal ternary phases in sputter-deposited TiAlN films. <i>Journal of Alloys and Compounds</i> , 2013, 561, 87-94.	5.5	26
62	Decoupling the Two Roles of Ga Droplets in the Self-Catalyzed Growth of GaAs Nanowires on SiO <sub>2</sub> /Si(111) Substrates. <i>Crystal Growth and Design</i> , 2017, 17, 5276-5282.	3.0	26
63	Facile preparation of multifunctionalisable â€stealthâ€™ upconverting nanoparticles for biomedical applications. <i>Dalton Transactions</i> , 2018, 47, 8595-8604.	3.3	26
64	Metabolism-dependent bioaccumulation of uranium by <i>Rhodosporidium toruloides</i> isolated from the flooding water of a former uranium mine. <i>PLoS ONE</i> , 2018, 13, e0201903.	2.5	26
65	Ligand-Exchange-Mediated Fabrication of Gold Aerogels Containing Different Au(I) Content with Peroxidase-like Behavior. <i>Chemistry of Materials</i> , 2019, 31, 10094-10099.	6.7	26
66	Facile preparation of radium-doped, functionalized nanoparticles as carriers for targeted alpha therapy. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1341-1349.	6.0	26
67	Enzymes Immobilized on Carbon Nitride (C <sub>3</sub> N <sub>4</sub> ) Cooperating with Metal Nanoparticles for Cascade Catalysis. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801664.	3.7	25
68	General Colloidal Synthesis of Transition-Metal Disulfide Nanomaterials as Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13148-13155.	8.0	25
69	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
70	Versatile Tri(pyrazolyl)phosphanes as Phosphorus Precursors for the Synthesis of Highly Emitting InP/ZnS Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14737-14742.	13.8	24
71	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
72	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

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73	Effect of nitrogen content on the degradation mechanisms of thin Taâ€“Siâ€“N diffusion barriers for Cu metallization. <i>Thin Solid Films</i> , 2006, 500, 259-267.	1.8	23
74	Zwitterionic Polymerâ€“Coated Ultrasmall Superparamagnetic Iron Oxide Nanoparticles with Low Protein Interaction and High Biocompatibility. <i>ChemNanoMat</i> , 2016, 2, 959-971.	2.8	23
75	Highâ€“Performance Bismuthâ€“Doped Nickel Aerogel Electrocatalyst for the Methanol Oxidation Reaction. <i>Angewandte Chemie</i> , 2020, 132, 13995-14003.	2.0	22
76	Ge/Si core/shell quantum dots in alumina: tuning the optical absorption by the core and shell size. <i>Nanophotonics</i> , 2017, 6, 1055-1062.	6.0	22
77	Artificially sporulated <i>Escherichia coli</i> cells as a robust cell factory for interfacial biocatalysis. <i>Nature Communications</i> , 2022, 13, .	12.8	22
78	Threshold and efficiency for perforation of 1 nm thick carbon nanomembranes with slow highly charged ions. <i>2D Materials</i> , 2015, 2, 035009.	4.4	21
79	Vertical Organic Thinâ€“Film Transistors with an Anodized Permeable Base for Very Low Leakage Current. <i>Advanced Materials</i> , 2019, 31, e1900917.	21.0	21
80	Effect of nanoscale surface topography on the adsorption of globular proteins. <i>Applied Surface Science</i> , 2021, 535, 147671.	6.1	21
81	Chlorine doping of MoSe <sub>2</sub> flakes by ion implantation. <i>Nanoscale</i> , 2021, 13, 5834-5846.	5.6	21
82	Crystallisation of caesium borosilicate glasses with approximate boroleucite composition. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2002, 217, 223-232.	0.8	20
83	Droplet-Confined Alternate Pulsed Epitaxy of GaAs Nanowires on Si Substrates down to CMOS-Compatible Temperatures. <i>Nano Letters</i> , 2016, 16, 4032-4039.	9.1	20
84	Role of internal demagnetizing field for the dynamics of a surface-modulated magnonic crystal. <i>Physical Review B</i> , 2017, 95, .	3.2	20
85	Degradation mechanisms of Ta and Taâ€“Si diffusion barriers during thermal stressing. <i>Thin Solid Films</i> , 2004, 458, 237-245.	1.8	19
86	Release of helium from vacancy defects in yttria-stabilized zirconia under irradiation. <i>Physical Review B</i> , 2012, 86, .	3.2	19
87	Ultra-smooth diamond-like carbon coatings with high elasticity deposited at low temperature by direct ion beam deposition. <i>Surface and Coatings Technology</i> , 2014, 258, 956-962.	4.8	19
88	Nickel-enhanced graphitic ordering of carbon ad-atoms during physical vapor deposition. <i>Carbon</i> , 2016, 100, 656-663.	10.3	19
89	Siliconâ€“Based Intermediateâ€“Band Infrared Photodetector Realized by Te Hyperdoping. <i>Advanced Optical Materials</i> , 2021, 9, 2001546.	7.3	19
90	Rapid Synthesis of Subâ€“10â€“nm Hexagonal NaYF <sub>4</sub> -Based Upconverting Nanoparticles using Thermol <sup>®</sup> ...66. <i>ChemistryOpen</i> , 2018, 7, 159-168.	1.9	18

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91	Ultra-dense planar metallic nanowire arrays with extremely large anisotropic optical and magnetic properties. Nano Research, 2018, 11, 3519-3528.	10.4	18
92	Formation of Neptunium(IV)â€“Silica Colloids at Near-Neutral and Slightly Alkaline pH. Environmental Science & Technology, 2015, 49, 665-671.	10.0	17
93	Bonding structure and morphology of chromium oxide films grown by pulsed-DC reactive magnetron sputter deposition. Journal of Alloys and Compounds, 2016, 672, 529-535.	5.5	17
94	On the insulator-to-metal transition in titanium-implanted silicon. Scientific Reports, 2018, 8, 4164.	3.3	17
95	Strain and Band-Gap Engineering in $\text{Ge}/\text{Si}$ Alloys via $\text{Pz}$	3.8	17
96	Morphological and Functional Modifications of Optical Thin Films for Space Applications Irradiated with Low-Energy Helium Ions. ACS Applied Materials & Interfaces, 2018, 10, 34781-34791.	8.0	17
97	Near surface silicide formation after off-normal Fe-implantation of Si(001) surfaces. Journal of Applied Physics, 2014, 116, 024301.	2.5	16
98	Intrinsic formation of nanocrystalline neptunium dioxide under neutral aqueous conditions relevant to deep geological repositories. Chemical Communications, 2015, 51, 1301-1304.	4.1	16
99	Production of three-dimensional quantum dot lattice of Ge/Si coreâ€“shell quantum dots and Si/Ge layers in an alumina glass matrix. Nanotechnology, 2015, 26, 065602.	2.6	16
100	The local environment of cobalt in amorphous, polycrystalline and epitaxial anatase TiO <sub>2</sub> :Co films produced by cobalt ion implantation. Journal of Applied Physics, 2015, 117, 183901.	2.5	16
101	Discrete Single Crystalline Titanium Oxide Nanoparticle Formation from a Two-Dimensional Nanowelded Network. Crystal Growth and Design, 2017, 17, 2660-2666.	3.0	16
102	Magnetic properties of Co/Ni multilayer structures for use in STT-RAM. Journal Physics D: Applied Physics, 2017, 50, 505003.	2.8	16
103	Subâ€“100-nm Radiolabeled Barium Sulfate Nanoparticles as Carriers for Theranostic Applications and Targeted Alpha Therapy. ChemistryOpen, 2020, 9, 797-805.	1.9	16
104	CO <sub>2</sub> 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
105	Silicon films with gallium-rich nanoinclusions: from superconductor to insulator. New Journal of Physics, 2013, 15, 083022.	2.9	15
106	Suppressing the cellular breakdown in silicon supersaturated with titanium. Journal Physics D: Applied Physics, 2016, 49, 245104.	2.8	15
107	Ferromagnetic Mn-Implanted GaP: Microstructures vs Magnetic Properties. ACS Applied Materials & Interfaces, 2016, 8, 3912-3918.	8.0	15
108	Hydrogen engineering via plasma immersion ion implantation and flash lamp annealing in silicon-based solar cell substrates. Journal of Applied Physics, 2014, 115, 064505.	2.5	14

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109	Epitaxial Mn <sub>5</sub> Ge <sub>3</sub> (100) layer on Ge (100) substrates obtained by flash lamp annealing. Applied Physics Letters, 2018, 113, .	3.3	14
110	Site-controlled formation of single Si nanocrystals in a buried SiO <sub>2</sub> matrix using ion beam mixing. Beilstein Journal of Nanotechnology, 2018, 9, 2883-2892.	2.8	14
111	Preparation of non-oxidized Ge quantum dot lattices in amorphous Al <sub>2</sub> O <sub>3</sub> , Si <sub>3</sub> N <sub>4</sub> and SiC matrices. Nanotechnology, 2019, 30, 335601.	2.6	14
112	Technetium retention by gamma alumina nanoparticles and the effect of sorbed Fe <sup>2+</sup> . Journal of Hazardous Materials, 2020, 388, 122066.	12.4	14
113	Uranium(VI) bioassociation by different fungi – a comparative study into molecular processes. Journal of Hazardous Materials, 2021, 411, 125068.	12.4	14
114	Promoting the Electrocatalytic Performance of Noble Metal Aerogels by Ligand-Directed Modulation. Angewandte Chemie, 2020, 132, 5755-5760.	2.0	14
115	Band-gap narrowing in Mn-doped GaAs probed by room-temperature photoluminescence. Physical Review B, 2015, 92, .	3.2	13
116	Neptunium(V) Retention by Siderite under Anoxic Conditions: Precipitation of NpO <sub>2</sub> -Like Nanoparticles and of Np(IV) Pentacarbonate. Environmental Science & Technology, 2016, 50, 10413-10420.	10.0	13
117	Alkyl Branching Position in Diketopyrrolopyrrole Polymers: Interplay between Fibrillar Morphology and Crystallinity and Their Effect on Photogeneration and Recombination in Bulk-Heterojunction Solar Cells. Chemistry of Materials, 2018, 30, 6801-6809.	6.7	13
118	Freeze-Thaw-Promoted Fabrication of Clean and Hierarchically Structured Noble-Metal Aerogels for Electrocatalysis and Photoelectrocatalysis. Angewandte Chemie, 2020, 132, 8370-8377.	2.0	13
119	Local and nonlocal spin Seebeck effect in lateral Pt/Cr <sub>2</sub> O <sub>3</sub> /Pt devices at low temperatures. APL Materials, 2021, 9, .	5.1	13
120	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
121	Thermal stability of Te-hyperdoped Si: Atomic-scale correlation of the structural, electrical, and optical properties. Physical Review Materials, 2019, 3, .	2.4	13
122	Defect Nanostructure and its Impact on Magnetism of Cr <sub>2</sub> O <sub>3</sub> Thin Films. Small, 2022, 18, e2201228.	10.0	13
123	Effect of annealing on the microstructure of ultrathin tungsten nitride diffusion barriers for copper metallization. Microelectronic Engineering, 2002, 64, 269-277.	2.4	12
124	Comparison of the annealing behavior of thin Ta films deposited onto Si and SiO <sub>2</sub> substrates. Analytical and Bioanalytical Chemistry, 2004, 379, 568-75.	3.7	12
125	III-V/Si on silicon-on-insulator platform for hybrid nanoelectronics. Journal of Applied Physics, 2014, 115, .	2.5	12
126	Hollow Au@TiO <sub>2</sub> porous electrospun nanofibers for catalytic applications. RSC Advances, 2020, 10, 6592-6602.	3.6	12



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127	Insight into the structure–property relationship of UO <sub>2</sub> nanoparticles. Inorganic Chemistry Frontiers, 2021, 8, 1102-1110.	6.0	12
128	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
129	Stress-controlled zero-field spin splitting in silicon carbide. Applied Physics Letters, 2021, 118, .	3.3	12
130	Self-Supported Three-Dimensional Quantum Dot Aerogels as a Promising Photocatalyst for CO <sub>2</sub> Reduction. Chemistry of Materials, 2022, 34, 2687-2695.	6.7	12
131	Thin tantalum–silicon–oxygen/tantalum–silicon–nitrogen films as high-efficiency humidity diffusion barriers for solar cell encapsulation. Thin Solid Films, 2006, 515, 1612-1617.	1.8	11
132	High Energy Radial Deposition of Diamond-Like Carbon Coatings. Coatings, 2015, 5, 326-337.	2.6	11
133	Parameter-free determination of the exchange constant in thin films using magnonic patterning. Applied Physics Letters, 2016, 108, .	3.3	11
134	CMOS–Compatible Controlled Hyperdoping of Silicon Nanowires. Advanced Materials Interfaces, 2018, 5, 1800101.	3.7	11
135	Unraveling Structure and Device Operation of Organic Permeable Base Transistors. Advanced Electronic Materials, 2020, 6, 2000230.	5.1	11
136	Near-Infrared-Emitting Cd <sub>x</sub> Hg <sub>1–x</sub> Se-Based Core/Shell Nanoplatelets. Chemistry of Materials, 2021, 33, 7693-7702.	6.7	11
137	Extraordinary anisotropic magnetoresistance in $\text{CaMnO}_3$ heterostructures. Physical Review B, 2022, 105, .	3.1	11
138	Void formation in the Cu layer during thermal treatment of SiNx/Cu/Ta <sub>3</sub> Si <sub>2</sub> /SiO <sub>2</sub> /Si systems. Crystal Research and Technology, 2005, 40, 135-142.	1.3	10
139	Sponge-like Si-SiO <sub>2</sub> nanocomposite–Morphology studies of spinodally decomposed silicon-rich oxide. Applied Physics Letters, 2013, 103, 131911.	3.3	10
140	Composition and bandgap control of Al <sub>x</sub> Ga <sub>1–x</sub> N films synthesized by plasma-assisted pulsed laser deposition. Journal of Materials Chemistry C, 2015, 3, 5307-5315.	5.5	10
141	Carbon–nickel nanocomposite templates–predefined stable catalysts for diameter-controlled growth of single-walled carbon nanotubes. Nanoscale, 2016, 8, 14888-14897.	5.6	10
142	Self-assembly of magnetic nanoclusters in diamond-like carbon by diffusion processes enhanced by collision cascades. Applied Physics Letters, 2017, 110, .	3.3	10
143	In situ ohmic contact formation for n-type Ge via non-equilibrium processing. Semiconductor Science and Technology, 2017, 32, 115006.	2.0	10
144	Ferromagnetic resonance of MBE-grown FeRh thin films through the metamagnetic phase transition. Physica Status Solidi (B): Basic Research, 2017, 254, 1700145.	1.5	10

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145	Nonlinear plasmonic response of doped nanowires observed by infrared nanospectroscopy. <i>Nanotechnology</i> , 2019, 30, 084003.	2.6	10
146	Higher-order ferromagnetic resonances in out-of-plane saturated Co/Au magnetic multilayers. <i>Physical Review B</i> , 2020, 102, .	3.2	10
147	Bioassociation of U(VI) and Eu(III) by Plant (<i>Brassica napus</i>) Suspension Cell Culturesâ€”A Spectroscopic Investigation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 6718-6728.	10.0	10
148	Silicon nanodot formation and selfâ€”ordering under bombardment with heavy Bi<sub>3</sub> ions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 501-505.	2.4	9
149	Multiscale Self-Assembly of Silicon Quantum Dots into an Anisotropic Three-Dimensional Random Network. <i>Nano Letters</i> , 2016, 16, 1942-1948.	9.1	9
150	Silver Particles with Rhombicuboctahedral Shape and Effective Isotropic Interactions with Light. <i>Chemistry of Materials</i> , 2019, 31, 2822-2827.	6.7	9
151	Tailoring Particleâ€”Enzyme Nanoconjugates for Biocatalysis at the Organicâ€”Organic Interface. <i>ChemSusChem</i> , 2020, 13, 6523-6527.	6.8	9
152	Phase Selection in Mnâ€”Si Alloys by Fast Solidâ€”State Reaction with Enhanced Skyrmion Stability. <i>Advanced Functional Materials</i> , 2021, 31, 2009723.	14.9	9
153	A Robust PtNi Nanoframe/Nâ€”Doped Graphene Aerogel Electrocatalyst with Both High Activity and Stability. <i>Angewandte Chemie</i> , 2021, 133, 9676-9683.	2.0	9
154	Nematicity of correlated systems driven by anisotropic chemical phase separation. <i>Physical Review Materials</i> , 2018, 2, .	2.4	9
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