

Christian KÃ¼bel

List of Publications by Year in descending order

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286
papers

11,437
citations

31976

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39675

94
g-index

296
all docs

296
docs citations

296
times ranked

14886
citing authors

#	ARTICLE	IF	CITATIONS
1	High entropy oxides for reversible energy storage. Nature Communications, 2018, 9, 3400.	12.8	643
2	Towards automated diffraction tomography: Part I – Data acquisition. Ultramicroscopy, 2007, 107, 507-513.	1.9	452
3	Size-Dependent Absolute Quantum Yields for Size-Separated Colloidally-Stable Silicon Nanocrystals. Nano Letters, 2012, 12, 337-342.	9.1	299
4	Multicolor Silicon Light-Emitting Diodes (SiLEDs). Nano Letters, 2013, 13, 475-480.	9.1	273
5	3D imaging of nanomaterials by discrete tomography. Ultramicroscopy, 2009, 109, 730-740.	1.9	255
6	Performance study of magnesium-sulfur battery using a graphene based sulfur composite cathode electrode and a non-nucleophilic Mg electrolyte. Nanoscale, 2016, 8, 3296-3306.	5.6	247
7	Giant Polycyclic Aromatic Hydrocarbons. Chemistry - A European Journal, 1998, 4, 2099-2109.	3.3	240
8	Synthesis and Self-Assembly of Functionalized Hexa-peri-hexabenzocoronenes. Chemistry - A European Journal, 2000, 6, 4327-4342.	3.3	240
9	Multicomponent equiatomic rare earth oxides. Materials Research Letters, 2017, 5, 102-109.	8.7	236
10	Nanoporous Au: An Unsupported Pure Gold Catalyst?. Journal of Physical Chemistry C, 2009, 113, 5593-5600.	3.1	232
11	Recent Advances in Electron Tomography: TEM and HAADF-STEM Tomography for Materials Science and Semiconductor Applications. Microscopy and Microanalysis, 2005, 11, 378-400.	0.4	215
12	Altered thermodynamic and kinetic properties of MgH ₂ infiltrated in microporous scaffold. Chemical Communications, 2010, 46, 8353.	4.1	183
13	Efficient Preparation and Catalytic Activity of MgO(111) Nanosheets. Angewandte Chemie - International Edition, 2006, 45, 7277-7281.	13.8	149
14	MgO(111) Nanosheets with Unusual Surface Activity. Journal of Physical Chemistry C, 2007, 111, 12038-12044.	3.1	133
15	Hollow Zinc Oxide Mesocrystals from an Ionic Liquid Precursor (ILP). Advanced Materials, 2008, 20, 1279-1285.	21.0	126
16	Preparation of Monodisperse Silicon Nanocrystals Using Density Gradient Ultracentrifugation. Journal of the American Chemical Society, 2011, 133, 11928-11931.	13.7	121
17	Spatial Separation of Charge Carriers in In ₂ O ₃ (OH) Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. ACS Nano, 2016, 10, 5578-5586.	14.6	118
18	Fast kinetics of multivalent intercalation chemistry enabled by solvated magnesium-ions into self-established metallic layered materials. Nature Communications, 2018, 9, 5115.	12.8	114

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19	Polycyclic Aromatic Hydrocarbons by Cyclodehydrogenation and Skeletal Rearrangement of Oligophenylenes. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1607-1610.	4.4	113
20	CuF ₂ as Reversible Cathode for Fluoride Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1701051.	14.9	112
21	Grain boundary diffusion of different rare earth elements in Nd-Fe-B sintered magnets by experiment and FEM simulation. <i>Acta Materialia</i> , 2017, 124, 421-429.	7.9	111
22	Density changes in shear bands of a metallic glass determined by correlative analytical transmission electron microscopy. <i>Ultramicroscopy</i> , 2014, 142, 1-9.	1.9	108
23	Nanosized polyphenylene dendrimers based upon pentaphenylbenzene units. <i>Journal of Materials Chemistry</i> , 1997, 7, 1207-1211.	6.7	106
24	Combination of in situ straining and ACOM TEM: A novel method for analysis of plastic deformation of nanocrystalline metals. <i>Ultramicroscopy</i> , 2013, 128, 68-81.	1.9	104
25	Nickel@Siloxene catalytic nanosheets for high-performance CO ₂ methanation. <i>Nature Communications</i> , 2019, 10, 2608.	12.8	104
26	Polymer-Induced Microstructure Variation in Zinc Oxide Crystals Precipitated from Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2660-2666.	2.6	102
27	Pyrolysis in the Mesophase: A Chemist's Approach toward Preparing Carbon Nano- and Microparticles. <i>Journal of the American Chemical Society</i> , 2002, 124, 13130-13138.	13.7	101
28	Strengthening zones in the Co matrix of WC-Co cemented carbides. <i>Scripta Materialia</i> , 2014, 83, 17-20.	5.2	98
29	Nonequilibrium structure of Zn ₂ SnO ₄ spinel nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 3117.	6.7	96
30	Synthesis and crystal packing of large polycyclic aromatic hydrocarbons: hexabenzob[bc,ef,hi,kl,no,qr]coronene and dibenzof[fg,ij]phenanthro[9,10,1,2,3-pqrst]pentaphene. <i>Journal of Materials Chemistry</i> , 2000, 10, 879-886.	6.7	94
31	Tailoring Surface Frustrated Lewis Pairs of In ₂ O ₃ ·x(OH) _y for Gas-Phase Heterogeneous Photocatalytic Reduction of CO ₂ by Isomorphous Substitution of In ³⁺ with Bi ³⁺ . <i>Advanced Science</i> , 2018, 5, 1700732.	11.2	91
32	Investigations of voids in the aragonite platelets of nacre. <i>Acta Biomaterialia</i> , 2009, 5, 3038-3044.	8.3	88
33	Self-assembly of a neutral platinum(II) complex into highly emitting microcrystalline fibers through metallophilic interactions. <i>Chemical Communications</i> , 2014, 50, 7269-7272.	4.1	86
34	A ferrocene-based carbon-iron lithium fluoride nanocomposite as a stable electrode material in lithium batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 1871.	6.7	83
35	Mechanosynthesized BiFeO ₃ Nanoparticles with Highly Reactive Surface and Enhanced Magnetization. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7209-7217.	3.1	82
36	CF _x Derived Carbon-FeF ₂ Nanocomposites for Reversible Lithium Storage. <i>Advanced Energy Materials</i> , 2013, 3, 308-313.	19.5	76

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37	A Filledâ€Honeycombâ€Structured Crystal Formed by Selfâ€Assembly of a Janus Polyoxometalateâ€Silsesquioxane (POMâ€POSS) Coâ€Cluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15699-15704.	13.8	74
38	Characterization and Catalytic-Hydrogenation Behavior of SiO ₂ -Embedded Nanoscopic Pd, Au, and Pdâ€Au Alloy Colloids. <i>Chemistry - A European Journal</i> , 2006, 12, 2343-2357.	3.3	73
39	Grain boundary diffusion in nanocrystalline Nd-Fe-B permanent magnets with low-melting eutectics. <i>Acta Materialia</i> , 2016, 115, 354-363.	7.9	73
40	Direct observation of organicâ€organic heteroepitaxy: perylene-tetracarboxylic-dianhydride on hexa-peri-benzocoronene on highly ordered pyrolytic graphite. <i>Surface Science</i> , 2000, 445, 358-367.	1.9	70
41	Direct Evidence of Significant Cation Intermixing in Upconverting Core@Shell Nanocrystals: Toward a New Crystallochemical Model. <i>Chemistry of Materials</i> , 2017, 29, 9238-9246.	6.7	66
42	Electron Cryoâ€Microscopy of TPPS ₄ â€2HCl Tubes Reveals a Helical Organisation Explaining the Origin of their Chirality. <i>ChemPhysChem</i> , 2013, 14, 3209-3214.	2.1	64
43	Morphological Analysis of Disordered Macroporousâ€Mesoporous Solids Based on Physical Reconstruction by Nanoscale Tomography. <i>Langmuir</i> , 2014, 30, 9022-9027.	3.5	63
44	Impact of sonication pretreatment on carbon nanotubes: A transmission electron microscopy study. <i>Carbon</i> , 2013, 61, 404-411.	10.3	62
45	Strategy to improve the characterization of chitosan for sustainable biomedical applications: SAR guided multi-dimensional analysis. <i>Green Chemistry</i> , 2009, 11, 498.	9.0	61
46	Tensile properties and work hardening behaviors of ultrafine grained carbon steel and pure iron processed by warm high pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 581, 8-15.	5.6	59
47	Controlled Synthesis of Thorium and Uranium Oxide Nanocrystals. <i>Chemistry - A European Journal</i> , 2013, 19, 5297-5305.	3.3	59
48	Nonâ€aqueous Synthesis of Isotropic and Anisotropic Actinide Oxide Nanocrystals. <i>Chemistry - A European Journal</i> , 2012, 18, 8283-8287.	3.3	58
49	Conductivity Optimization of Tysonite-type La _x Ba _x F ₃ â€ Solid Electrolytes for Advanced Fluoride Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23707-23715.	8.0	58
50	Evolution of Glassy Carbon Microstructure: In Situ Transmission Electron Microscopy of the Pyrolysis Process. <i>Scientific Reports</i> , 2018, 8, 16282.	3.3	58
51	Nanoporous-gold-based composites: toward tensile ductility. <i>NPG Asia Materials</i> , 2015, 7, e187-e187.	7.9	57
52	Hindered Diffusion in Ordered Mesoporous Silicas: Insights from Pore-Scale Simulations in Physical Reconstructions of SBA-15 and KIT-6 Silica. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12350-12361.	3.1	56
53	Size Tunable Gold Nanorods Evenly Distributed in the Channels of Mesoporous Silica. <i>ACS Nano</i> , 2008, 2, 1205-1212.	14.6	55
54	Enhanced low-temperature lithium storage performance of multilayer graphene made through an improved ionic liquid-assisted synthesis. <i>Journal of Power Sources</i> , 2015, 281, 318-325.	7.8	55

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55	Hexagonal Packing of Oligo(m-phenylene ethynylene)s in the Solid State: A Helical Nanotubules. Journal of the American Chemical Society, 2000, 122, 6134-6135.	13.7	53
56	Untangling dislocation and grain boundary mediated plasticity in nanocrystalline nickel. Acta Materialia, 2014, 65, 295-307.	7.9	53
57	Three-dimensional localization of ultrasmall immuno-gold labels by HAADF-STEM tomography. Journal of Structural Biology, 2002, 138, 58-62.	2.8	52
58	Electrochemical Delithiation/Relithiation of LiCoPO ₄ : A Two-Step Reaction Mechanism Investigated by <i>in Situ</i> X-ray Diffraction, <i>in Situ</i> X-ray Absorption Spectroscopy, and <i>ex Situ</i> ⁷ Li/ ³¹ P NMR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 17279-17290.	3.1	52
59	Radial distribution function imaging by STEM diffraction: Phase mapping and analysis of heterogeneous nanostructured glasses. Ultramicroscopy, 2016, 168, 1-6.	1.9	52
60	Hindrance Factor Expression for Diffusion in Random Mesoporous Adsorbents Obtained from Pore-Scale Simulations in Physical Reconstructions. Industrial & Engineering Chemistry Research, 2018, 57, 3031-3042.	3.7	52
61	High resolution electron microscopy of ordered polymers and organic molecular crystals: Recent developments and future possibilities. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1749-1778.	2.1	51
62	Modified synthesis of [Fe/LiF/C] nanocomposite, and its application as conversion cathode material in lithium batteries. Journal of Power Sources, 2011, 196, 5936-5944.	7.8	51
63	Nanoscale morphology of Ni ₅₀ Ti ₄₅ Cu ₅ nanoglass. Materials Characterization, 2016, 113, 26-33.	4.4	49
64	Correlation of the orientation of stacked aragonite platelets in nacre and their connection via mineral bridges. Ultramicroscopy, 2009, 109, 230-236.	1.9	48
65	Assembling Photoluminescent Silicon Nanocrystals into Periodic Mesoporous Organosilica. Journal of the American Chemical Society, 2012, 134, 8439-8446.	13.7	47
66	Charge Generation Layers for Solution Processed Tandem Organic Light Emitting Diodes with Regular Device Architecture. ACS Applied Materials & Interfaces, 2015, 7, 8132-8137.	8.0	47
67	Size-tunable Photothermal Germanium Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 6329-6334.	13.8	47
68	Functionalized Hexa-peri-hexabenzocoronenes: A Stable Supramolecular Order by Polymerization in the Discotic Mesophase. Chemistry of Materials, 2000, 12, 1638-1647.	6.7	46
69	Thorium/uranium mixed oxide nanocrystals: Synthesis, structural characterization and magnetic properties. Nano Research, 2014, 7, 119-131.	10.4	46
70	Hetero-layered MoS ₂ /C composites enabling ultrafast and durable Na storage. Energy Storage Materials, 2019, 21, 115-123.	18.0	46
71	New gold and silver-gold catalysts in the shape of sponges and sieves. Gold Bulletin, 2007, 40, 142-149.	2.7	45
72	Mapping structure and morphology of amorphous organic thin films by 4D-STEM pair distribution function analysis. Microscopy (Oxford, England), 2019, 68, 301-309.	1.5	45

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73	Periodic Mesoporous Hydridosilica â Synthesis of an âImpossibleâMaterial and Its Thermal Transformation into Brightly Photoluminescent Periodic Mesoporous Nanocrystal Silicon-Silica Composite. Journal of the American Chemical Society, 2011, 133, 5094-5102.	13.7	44
74	Unraveling the Self-Assembly of Heterocluster Janus Dumbbells into Hybrid Cubosomes with Internal Double-Diamond Structure. Journal of the American Chemical Society, 2019, 141, 831-839.	13.7	44
75	Molecular Packing and Morphology of Oligo(m-phenylene ethynylene) Foldamers. Journal of the American Chemical Society, 2002, 124, 8605-8610.	13.7	42
76	Templated Formation of Luminescent Virus-like Particles by Tailor-Made Pt(II) Amphiphiles. Journal of the American Chemical Society, 2018, 140, 2355-2362.	13.7	42
77	Structure and Properties of Nanoglasses. Advanced Engineering Materials, 2018, 20, 1800404.	3.5	42
78	Grain refinement and mechanical properties in ultrafine grained Pd and PdâAg alloys produced by HPT. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1776-1783.	5.6	41
79	Near- and off-resonant optical limiting properties of goldâsilver alloy nanoparticles for intense nanosecond laser pulses. Journal of Optics (United Kingdom), 2012, 14, 075203.	2.2	41
80	Accurate segmentation of dense nanoparticles by partially discrete electron tomography. Ultramicroscopy, 2012, 114, 96-105.	1.9	41
81	Strain mapping of a triple junction in nanocrystalline Pd. Acta Materialia, 2011, 59, 7380-7387.	7.9	40
82	UltraâSmall Plutonium Oxide Nanocrystals: An Innovative Material in Plutonium Science. Chemistry - A European Journal, 2014, 20, 10431-10438.	3.3	40
83	Morphological Analysis of Physically Reconstructed Silica Monoliths with Submicrometer Macropores: Effect of Decreasing Domain Size on Structural Homogeneity. Langmuir, 2015, 31, 7391-7400.	3.5	40
84	Development of a water based process for stable conversion cathodes on the basis of FeF3. Journal of Power Sources, 2016, 313, 213-222.	7.8	39
85	Early deformation mechanisms in the shear affected region underneath a copper sliding contact. Nature Communications, 2020, 11, 839.	12.8	38
86	Unveiling the Local Atomic Arrangements in the Shear Band Regions of Metallic Glass. Advanced Materials, 2021, 33, e2007267.	21.0	38
87	Morphologyâtransport relationships for SBA-15 and KIT-6 ordered mesoporous silicas. Physical Chemistry Chemical Physics, 2020, 22, 11314-11326.	2.8	37
88	From three-dimensional polyphenylene dendrimers to large graphite subunits. Carbon, 1998, 36, 833-837.	10.3	36
89	Polyoxometalate cluster-contained hybrid gelator and hybrid organogel: a new concept of softening of polyoxometalate clusters. Soft Matter, 2011, 7, 2317.	2.7	36
90	Nanotwinned silver nanowires: Structure and mechanical properties. Acta Materialia, 2015, 92, 299-308.	7.9	36

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91	Boosting the power performance of multilayer graphene as lithium-ion battery anode via unconventional doping with in-situ formed Fe nanoparticles. Scientific Reports, 2016, 6, 23585.	3.3	36
92	Defect-mediated curvature and twisting in polymer crystals. Journal of Physical Organic Chemistry, 2000, 13, 816-829.	1.9	34
93	Nanocrystalline Ti ₂ /3Sn ₁ /3O ₂ as anode material for Li-ion batteries. Journal of Power Sources, 2011, 196, 9689-9695.	7.8	34
94	Separation of Double-Walled Carbon Nanotubes by Size Exclusion Column Chromatography. ACS Nano, 2014, 8, 6756-6764.	14.6	33
95	Plasticity mechanisms in ultrafine grained freestanding aluminum thin films revealed by <i>in-situ</i> transmission electron microscopy nanomechanical testing. Applied Physics Letters, 2014, 104, .	3.3	32
96	Toward new gas-analytical multisensor chips based on titanium oxide nanotube array. Scientific Reports, 2017, 7, 9732.	3.3	32
97	New frontier in printed thermoelectrics: formation of Ag_{2-x}Se through thermally stimulated dissociative adsorption leads to high <i>ZT</i> . Journal of Materials Chemistry A, 2020, 8, 16366-16375.	10.3	32
98	Reference nano-dimensional metrology by scanning transmission electron microscopy. Measurement Science and Technology, 2013, 24, 085001.	2.6	31
99	Hierarchical MoS ₂ –carbon porous nanorods towards atomic interfacial engineering for high-performance lithium storage. Journal of Materials Chemistry A, 2019, 7, 7553-7564.	10.3	31
100	Looking Inside a Working SiLED. Nano Letters, 2013, 13, 3539-3545.	9.1	30
101	Comprehensive analysis of TEM methods for LiFePO ₄ /FePO ₄ phase mapping: spectroscopic techniques (EFTEM, STEM-EELS) and STEM diffraction techniques (ACOM-TEM). Ultramicroscopy, 2016, 170, 10-18.	1.9	30
102	Bi ₂ O ₃ nanoparticles encapsulated in surface mounted metal–organic framework thin films. Nanoscale, 2016, 8, 6468-6472.	5.6	30
103	Solution Growth of Ultralong Gold Nanohelices. ACS Nano, 2017, 11, 5538-5546.	14.6	30
104	Sub-50 nm Channel Vertical Field-Effect Transistors using Conventional Ink-Jet Printing. Advanced Materials, 2017, 29, 1603858.	21.0	30
105	Nano and micro U ₁ -Th O ₂ solid solutions: From powders to pellets. Journal of Nuclear Materials, 2018, 498, 307-313.	2.7	30
106	In situ TEM studies of micron-sized all-solid-state fluoride ion batteries: Preparation, prospects, and challenges. Microscopy Research and Technique, 2016, 79, 615-624.	2.2	29
107	Direct Imaging of Defect Structures in Pentacene Nanocrystals. Advanced Materials, 2002, 14, 54-57.	21.0	28
108	Effects of ZnO–B ₂ O ₃ Addition on the Microstructure and Microwave Properties of Low-Temperature Sintered Barium Strontium Titanate (<sc>BST</sc>) Thick Films. International Journal of Applied Ceramic Technology, 2013, 10, E200.	2.1	28

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109	Formation of size controlled silicon nanocrystals in nitrogen free silicon dioxide matrix prepared by plasma enhanced chemical vapor deposition. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	28
110	Observing the morphology of single-layered embedded silicon nanocrystals by using temperature-stable TEM membranes. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 964-970.	2.8	28
111	On ball-milled ODS ferritic steel recrystallization: From as-milled powder particles to consolidated state. <i>Journal of Materials Science</i> , 2015, 50, 2202-2217.	3.7	28
112	Two-dimensional percolation threshold in confined Si nanoparticle networks. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	28
113	Microscopy of wear affected surface produced during sliding of Nimonic 80A against Stellite 6 at 20Å°C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 357, 412-422.	5.6	27
114	Surface segregation in TiO ₂ -based nanocomposite thin films. <i>Nanotechnology</i> , 2012, 23, 495701.	2.6	27
115	Synthesis of [Co/LiF/C] nanocomposite and its application as cathode in lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2012, 530, 121-126.	5.5	27
116	Deformation-induced grain growth and twinning in nanocrystalline palladium thin films. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 554-566.	2.8	27
117	Evolution of the surface plasmon resonance of Au:TiO ₂ nanocomposite thin films with annealing temperature. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	27
118	Potassium polytitanate gas-sensor study by impedance spectroscopy. <i>Analytica Chimica Acta</i> , 2015, 897, 81-86.	5.4	27
119	Understanding the graphitization and growth of free-standing nanocrystalline graphene using in situ transmission electron microscopy. <i>Nanoscale</i> , 2017, 9, 12835-12842.	5.6	27
120	(De)Lithiation Mechanism of Hierarchically Layered LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathodes during High-Voltage Cycling. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5025-A5032.	2.9	27
121	Super-Helically Twisted Strands of Poly(m-phenylene isophthalamide) (MPDI). <i>Macromolecules</i> , 2001, 34, 9053-9058.	4.8	26
122	Preparation of intergrown P/O-type biphasic layered oxides as high-performance cathodes for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13151-13160.	10.3	26
123	Electron microscopic studies on the diffusion of metal ions in epoxy-metal interphases. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 170-177.	2.9	25
124	Strain Relaxation and Vacancy Creation in Thin Platinum Films. <i>Physical Review Letters</i> , 2011, 107, 265501.	7.8	25
125	Large-distance rf- and dc-sputtering of epitaxial La _{1-x} Sr _x MnO ₃ thin films. <i>Thin Solid Films</i> , 2012, 520, 5521-5527.	1.8	25
126	Porosity and Structure of Hierarchically Porous Ni/Al ₂ O ₃ Catalysts for CO ₂ Methanation. <i>Catalysts</i> , 2020, 10, 1471.	3.5	25

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127	Configurable Resistive Response in BaTiO ₃ Ferroelectric Memristors via Electron Beam Radiation. <i>Advanced Materials</i> , 2020, 32, e1907541.	21.0	25
128	Construction of New Active Sites: Cu Substitution Enabled Surface Frustrated Lewis Pairs over Calcium Hydroxyapatite for CO ₂ Hydrogenation. <i>Advanced Science</i> , 2021, 8, e2101382.	11.2	25
129	Poly(4-vinylhexaphenylbenzene)s: A New Carbon-Rich Polymers. <i>Macromolecules</i> , 1998, 31, 6014-6021.	4.8	24
130	Ferrocenyl Functionalized Silver-Chalcogenide Nanoclusters. <i>Inorganic Chemistry</i> , 2011, 50, 3252-3261.	4.0	24
131	Challenges in quantitative crystallographic characterization of 3D thin films by ACOM-TEM. <i>Ultramicroscopy</i> , 2017, 173, 84-94.	1.9	23
132	Electron Beam Effects on Oxide Thin Films' Structure and Electrical Property Correlations. <i>Microscopy and Microanalysis</i> , 2019, 25, 592-600.	0.4	23
133	Hexagonal mesoporous silica nanoparticles with large pores and a hierarchical porosity tested for HPLC. <i>Comptes Rendus Chimie</i> , 2005, 8, 627-634.	0.5	22
134	Synthesis of transuranium-based nanocrystals via the thermal decomposition of actinyl nitrates. <i>RSC Advances</i> , 2013, 3, 18271.	3.6	22
135	Effect of oxygen on the microstructure and hydrogen storage properties of V-Ti-Cr-Fe quaternary solid solutions. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20000-20008.	7.1	22
136	Controlled Solvothermal Routes to Hierarchical 3D Superparticles of Nanoscopic CdS. <i>Chemistry of Materials</i> , 2015, 27, 3666-3682.	6.7	22
137	A facile synthesis of a carbon-encapsulated Fe ₃ O ₄ nanocomposite and its performance as anode in lithium-ion batteries. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 699-704.	2.8	21
138	Combined Scanning Transmission Electron Microscopy Tilt- and Focal Series. <i>Microscopy and Microanalysis</i> , 2014, 20, 548-560.	0.4	21
139	Orientation dependent fracture behavior of nanotwinned copper. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	21
140	Luminescent CdSe Superstructures: A Nanocluster Superlattice and a Nanoporous Crystal. <i>Journal of the American Chemical Society</i> , 2017, 139, 1129-1144.	13.7	21
141	Transport under confinement: Hindrance factors for diffusion in core-shell and fully porous particles with different mesopore space morphologies. <i>Microporous and Mesoporous Materials</i> , 2019, 282, 188-196.	4.4	21
142	Photophysics of organically-capped silicon nanocrystals – A closer look into silicon nanocrystal luminescence using low temperature transient spectroscopy. <i>Chemical Physics</i> , 2012, 405, 175-180.	1.9	20
143	Light emission, light detection and strain sensing with nanocrystalline graphene. <i>Nanotechnology</i> , 2015, 26, 325202.	2.6	20
144	AuRu/AC as an effective catalyst for hydrogenation reactions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28171-28176.	2.8	20

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145	Size-Dependent Oxidation of Monodisperse Silicon Nanocrystals with Allylphenylsulfide Surfaces. Small, 2015, 11, 335-340.	10.0	20
146	In situ observation of deformation processes in nanocrystalline face-centered cubic metals. Beilstein Journal of Nanotechnology, 2016, 7, 572-580.	2.8	20
147	Vanadium Oxyfluoride/Few-Layer Graphene Composite as a High-Performance Cathode Material for Lithium Batteries. Inorganic Chemistry, 2016, 55, 3789-3796.	4.0	20
148	Polyaramid-Based Flexible Antibacterial Coatings Fabricated Using Laser-Induced Carbonization and Copper Electroplating. ACS Applied Materials & Interfaces, 2020, 12, 53193-53205.	8.0	20
149	Oligophenylenes as building blocks for well-defined graphite subunits. Carbon, 1998, 36, 827-831.	10.3	19
150	Transfer and State Changes of Fluorine at Polytetrafluoroethylene/Titania Boundaries by Mechanical Stressing and Thermal Annealing. Journal of Physical Chemistry C, 2013, 117, 15272-15278.	3.1	19
151	Influence of particle size and fluorination ratio of CF _x precursor compounds on the electrochemical performance of FeF ₂ nanocomposites for reversible lithium storage. Beilstein Journal of Nanotechnology, 2013, 4, 705-713.	2.8	19
152	Sorting of Double-Walled Carbon Nanotubes According to Their Outer Wall Electronic Type via a Gel Permeation Method. ACS Nano, 2015, 9, 3849-3857.	14.6	19
153	Spatial separation of photogenerated electron-hole pairs in solution-grown ZnO tandem p core-shell nanowire arrays toward highly sensitive photoelectrochemical detection of hydrogen peroxide. Journal of Materials Chemistry A, 2017, 5, 14397-14405.	10.3	19
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