

Christian KÃ¼bel

List of Publications by Year in descending order

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286
papers

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citations

31902

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39575

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.	5.8	643
2	Towards automated diffraction tomography: Part I – Data acquisition. Ultramicroscopy, 2007, 107, 507-513.	0.8	452
3	Size-Dependent Absolute Quantum Yields for Size-Separated Colloidally-Stable Silicon Nanocrystals. Nano Letters, 2012, 12, 337-342.	4.5	299
4	Multicolor Silicon Light-Emitting Diodes (SiLEDs). Nano Letters, 2013, 13, 475-480.	4.5	273
5	3D imaging of nanomaterials by discrete tomography. Ultramicroscopy, 2009, 109, 730-740.	0.8	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.	2.8	247
7	Giant Polycyclic Aromatic Hydrocarbons. Chemistry - A European Journal, 1998, 4, 2099-2109.	1.7	240
8	Synthesis and Self-Assembly of Functionalized Hexa-peri-hexabenzocoronenes. Chemistry - A European Journal, 2000, 6, 4327-4342.	1.7	240
9	Multicomponent equiatomic rare earth oxides. Materials Research Letters, 2017, 5, 102-109.	4.1	236
10	Nanoporous Au: An Unsupported Pure Gold Catalyst?. Journal of Physical Chemistry C, 2009, 113, 5593-5600.	1.5	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.	0.2	215
12	Altered thermodynamic and kinetic properties of MgH ₂ infiltrated in microporous scaffold. Chemical Communications, 2010, 46, 8353.	2.2	183
13	Efficient Preparation and Catalytic Activity of MgO(111) Nanosheets. Angewandte Chemie - International Edition, 2006, 45, 7277-7281.	7.2	149
14	MgO(111) Nanosheets with Unusual Surface Activity. Journal of Physical Chemistry C, 2007, 111, 12038-12044.	1.5	133
15	Hollow Zinc Oxide Mesocrystals from an Ionic Liquid Precursor (ILP). Advanced Materials, 2008, 20, 1279-1285.	11.1	126
16	Preparation of Monodisperse Silicon Nanocrystals Using Density Gradient Ultracentrifugation. Journal of the American Chemical Society, 2011, 133, 11928-11931.	6.6	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.	7.3	118
18	Fast kinetics of multivalent intercalation chemistry enabled by solvated magnesium-ions into self-established metallic layered materials. Nature Communications, 2018, 9, 5115.	5.8	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.	7.8	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.	3.8	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.	0.8	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.	0.8	104
25	Nickel@Siloxene catalytic nanosheets for high-performance CO ₂ methanation. <i>Nature Communications</i> , 2019, 10, 2608.	5.8	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.	1.2	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.	6.6	101
28	Strengthening zones in the Co matrix of WC-Co cemented carbides. <i>Scripta Materialia</i> , 2014, 83, 17-20.	2.6	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 (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.	5.6	91
32	Investigations of voids in the aragonite platelets of nacre. <i>Acta Biomaterialia</i> , 2009, 5, 3038-3044.	4.1	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.	2.2	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.	1.5	82
36	CF _x Derived Carbon-Fe ₂ Nanocomposites for Reversible Lithium Storage. <i>Advanced Energy Materials</i> , 2013, 3, 308-313.	10.2	76

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37	A Filled "Honeycomb" Structured Crystal Formed by Self-Assembly of a Janus Polyoxometalate "Silsesquioxane (POM-POSS) Co-Cluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15699-15704.	7.2	74
38	Characterization and Catalytic-Hydrogenation Behavior of SiO ₂ -Embedded Nanoscopic Pd, Au, and Pd-Au Alloy Colloids. <i>Chemistry - A European Journal</i> , 2006, 12, 2343-2357.	1.7	73
39	Grain boundary diffusion in nanocrystalline Nd-Fe-B permanent magnets with low-melting eutectics. <i>Acta Materialia</i> , 2016, 115, 354-363.	3.8	73
40	Direct observation of organic "organic heteroepitaxy: perylene-tetracarboxylic-dianhydride on hexa-peri-benzocoronene on highly ordered pyrolytic graphite. <i>Surface Science</i> , 2000, 445, 358-367.	0.8	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.	3.2	66
42	Electron Cryo-Microscopy of TPPS ₄ ·2HCl Tubes Reveals a Helical Organisation Explaining the Origin of their Chirality. <i>ChemPhysChem</i> , 2013, 14, 3209-3214.	1.0	64
43	Morphological Analysis of Disordered Macroporous "Mesoporous Solids Based on Physical Reconstruction by Nanoscale Tomography. <i>Langmuir</i> , 2014, 30, 9022-9027.	1.6	63
44	Impact of sonication pretreatment on carbon nanotubes: A transmission electron microscopy study. <i>Carbon</i> , 2013, 61, 404-411.	5.4	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.	4.6	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.	2.6	59
47	Controlled Synthesis of Thorium and Uranium Oxide Nanocrystals. <i>Chemistry - A European Journal</i> , 2013, 19, 5297-5305.	1.7	59
48	Non-Aqueous Synthesis of Isotropic and Anisotropic Actinide Oxide Nanocrystals. <i>Chemistry - A European Journal</i> , 2012, 18, 8283-8287.	1.7	58
49	Conductivity Optimization of Tysonite-type La _x Ba _x F ₃ Solid Electrolytes for Advanced Fluoride Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23707-23715.	4.0	58
50	Evolution of Glassy Carbon Microstructure: In Situ Transmission Electron Microscopy of the Pyrolysis Process. <i>Scientific Reports</i> , 2018, 8, 16282.	1.6	58
51	Nanoporous-gold-based composites: toward tensile ductility. <i>NPG Asia Materials</i> , 2015, 7, e187-e187.	3.8	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.	1.5	56
53	Size Tunable Gold Nanorods Evenly Distributed in the Channels of Mesoporous Silica. <i>ACS Nano</i> , 2008, 2, 1205-1212.	7.3	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.	4.0	55

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55	Hexagonal Packing of Oligo(m-phenylene ethynylene)s in the Solid State: A Helical Nanotubules. <i>Journal of the American Chemical Society</i> , 2000, 122, 6134-6135.	6.6	53
56	Untangling dislocation and grain boundary mediated plasticity in nanocrystalline nickel. <i>Acta Materialia</i> , 2014, 65, 295-307.	3.8	53
57	Three-dimensional localization of ultrasmall immuno-gold labels by HAADF-STEM tomography. <i>Journal of Structural Biology</i> , 2002, 138, 58-62.	1.3	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. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17279-17290.	1.5	52
59	Radial distribution function imaging by STEM diffraction: Phase mapping and analysis of heterogeneous nanostructured glasses. <i>Ultramicroscopy</i> , 2016, 168, 1-6.	0.8	52
60	Hindrance Factor Expression for Diffusion in Random Mesoporous Adsorbents Obtained from Pore-Scale Simulations in Physical Reconstructions. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3031-3042.	1.8	52
61	High resolution electron microscopy of ordered polymers and organic molecular crystals: Recent developments and future possibilities. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1749-1778.	2.4	51
62	Modified synthesis of [Fe/LiF/C] nanocomposite, and its application as conversion cathode material in lithium batteries. <i>Journal of Power Sources</i> , 2011, 196, 5936-5944.	4.0	51
63	Nanoscale morphology of Ni ₅₀ Ti ₄₅ Cu ₅ nanoglass. <i>Materials Characterization</i> , 2016, 113, 26-33.	1.9	49
64	Correlation of the orientation of stacked aragonite platelets in nacre and their connection via mineral bridges. <i>Ultramicroscopy</i> , 2009, 109, 230-236.	0.8	48
65	Assembling Photoluminescent Silicon Nanocrystals into Periodic Mesoporous Organosilica. <i>Journal of the American Chemical Society</i> , 2012, 134, 8439-8446.	6.6	47
66	Charge Generation Layers for Solution Processed Tandem Organic Light Emitting Diodes with Regular Device Architecture. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8132-8137.	4.0	47
67	Size-tunable Photothermal Germanium Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6329-6334.	7.2	47
68	Functionalized Hexa-peri-hexabenzocoronenes: A Stable Supramolecular Order by Polymerization in the Discotic Mesophase. <i>Chemistry of Materials</i> , 2000, 12, 1638-1647.	3.2	46
69	Thorium/uranium mixed oxide nanocrystals: Synthesis, structural characterization and magnetic properties. <i>Nano Research</i> , 2014, 7, 119-131.	5.8	46
70	Hetero-layered MoS ₂ /C composites enabling ultrafast and durable Na storage. <i>Energy Storage Materials</i> , 2019, 21, 115-123.	9.5	46
71	New gold and silver-gold catalysts in the shape of sponges and sieves. <i>Gold Bulletin</i> , 2007, 40, 142-149.	3.2	45
72	Mapping structure and morphology of amorphous organic thin films by 4D-STEM pair distribution function analysis. <i>Microscopy (Oxford, England)</i> , 2019, 68, 301-309.	0.7	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. <i>Journal of the American Chemical Society</i> , 2011, 133, 5094-5102.	6.6	44
74	Unraveling the Self-Assembly of Heterocluster Janus Dumbbells into Hybrid Cubosomes with Internal Double-Diamond Structure. <i>Journal of the American Chemical Society</i> , 2019, 141, 831-839.	6.6	44
75	Molecular Packing and Morphology of Oligo(m-phenylene ethynylene) Foldamers. <i>Journal of the American Chemical Society</i> , 2002, 124, 8605-8610.	6.6	42
76	Templated Formation of Luminescent Virus-like Particles by Tailor-Made Pt(II) Amphiphiles. <i>Journal of the American Chemical Society</i> , 2018, 140, 2355-2362.	6.6	42
77	Structure and Properties of Nanoglasses. <i>Advanced Engineering Materials</i> , 2018, 20, 1800404.	1.6	42
78	Grain refinement and mechanical properties in ultrafine grained Pd and PdâAg alloys produced by HPT. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1776-1783.	2.6	41
79	Near- and off-resonant optical limiting properties of goldâsilver alloy nanoparticles for intense nanosecond laser pulses. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 075203.	1.0	41
80	Accurate segmentation of dense nanoparticles by partially discrete electron tomography. <i>Ultramicroscopy</i> , 2012, 114, 96-105.	0.8	41
81	Strain mapping of a triple junction in nanocrystalline Pd. <i>Acta Materialia</i> , 2011, 59, 7380-7387.	3.8	40
82	UltraâSmall Plutonium Oxide Nanocrystals: An Innovative Material in Plutonium Science. <i>Chemistry - A European Journal</i> , 2014, 20, 10431-10438.	1.7	40
83	Morphological Analysis of Physically Reconstructed Silica Monoliths with Submicrometer Macropores: Effect of Decreasing Domain Size on Structural Homogeneity. <i>Langmuir</i> , 2015, 31, 7391-7400.	1.6	40
84	Development of a water based process for stable conversion cathodes on the basis of FeF ₃ . <i>Journal of Power Sources</i> , 2016, 313, 213-222.	4.0	39
85	Early deformation mechanisms in the shear affected region underneath a copper sliding contact. <i>Nature Communications</i> , 2020, 11, 839.	5.8	38
86	Unveiling the Local Atomic Arrangements in the Shear Band Regions of Metallic Glass. <i>Advanced Materials</i> , 2021, 33, e2007267.	11.1	38
87	Morphologyâtransport relationships for SBA-15 and KIT-6 ordered mesoporous silicas. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11314-11326.	1.3	37
88	From three-dimensional polyphenylene dendrimers to large graphite subunits. <i>Carbon</i> , 1998, 36, 833-837.	5.4	36
89	Polyoxometalate cluster-contained hybrid gelator and hybrid organogel: a new concept of softening of polyoxometalate clusters. <i>Soft Matter</i> , 2011, 7, 2317.	1.2	36
90	Nanotwinned silver nanowires: Structure and mechanical properties. <i>Acta Materialia</i> , 2015, 92, 299-308.	3.8	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. <i>Scientific Reports</i> , 2016, 6, 23585.	1.6	36
92	Defect-mediated curvature and twisting in polymer crystals. <i>Journal of Physical Organic Chemistry</i> , 2000, 13, 816-829.	0.9	34
93	Nanocrystalline Ti ₂ /3Sn ₁ /3O ₂ as anode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 9689-9695.	4.0	34
94	Separation of Double-Walled Carbon Nanotubes by Size Exclusion Column Chromatography. <i>ACS Nano</i> , 2014, 8, 6756-6764.	7.3	33
95	Plasticity mechanisms in ultrafine grained freestanding aluminum thin films revealed by <i>in-situ</i> transmission electron microscopy nanomechanical testing. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	32
96	Toward new gas-analytical multisensor chips based on titanium oxide nanotube array. <i>Scientific Reports</i> , 2017, 7, 9732.	1.6	32
97	New frontier in printed thermoelectrics: formation of $\hat{\Gamma}^2$ -Ag ₂ Se through thermally stimulated dissociative adsorption leads to high <i>ZT</i> . <i>Journal of Materials Chemistry A</i> , 2020, 8, 16366-16375.	5.2	32
98	Reference nano-dimensional metrology by scanning transmission electron microscopy. <i>Measurement Science and Technology</i> , 2013, 24, 085001.	1.4	31
99	Hierarchical MoS ₂ “carbon porous nanorods towards atomic interfacial engineering for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7553-7564.	5.2	31
100	Looking Inside a Working SiLED. <i>Nano Letters</i> , 2013, 13, 3539-3545.	4.5	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). <i>Ultramicroscopy</i> , 2016, 170, 10-18.	0.8	30
102	Bi ₂ O ₃ nanoparticles encapsulated in surface mounted metal-organic framework thin films. <i>Nanoscale</i> , 2016, 8, 6468-6472.	2.8	30
103	Solution Growth of Ultralong Gold Nanohelices. <i>ACS Nano</i> , 2017, 11, 5538-5546.	7.3	30
104	Sub-50 nm Channel Vertical Field-Effect Transistors using Conventional Ink-Jet Printing. <i>Advanced Materials</i> , 2017, 29, 1603858.	11.1	30
105	Nano and micro U ₁ -Th O ₂ solid solutions: From powders to pellets. <i>Journal of Nuclear Materials</i> , 2018, 498, 307-313.	1.3	30
106	In situ TEM studies of micron-sized all-solid-state fluoride ion batteries: Preparation, prospects, and challenges. <i>Microscopy Research and Technique</i> , 2016, 79, 615-624.	1.2	29
107	Direct Imaging of Defect Structures in Pentacene Nanocrystals. <i>Advanced Materials</i> , 2002, 14, 54-57.	11.1	28
108	Effects of ZnO-B ₂ O ₃ Addition on the Microstructure and Microwave Properties of Low-Temperature Sintered Barium Strontium Titanate (BST) Thick Films. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, E200.	1.1	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, .	1.1	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.	1.5	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.	1.7	28
112	Two-dimensional percolation threshold in confined Si nanoparticle networks. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	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.	2.6	27
114	Surface segregation in TiO ₂ -based nanocomposite thin films. <i>Nanotechnology</i> , 2012, 23, 495701.	1.3	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.	2.8	27
116	Deformation-induced grain growth and twinning in nanocrystalline palladium thin films. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 554-566.	1.5	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.	0.8	27
118	Potassium polytitanate gas-sensor study by impedance spectroscopy. <i>Analytica Chimica Acta</i> , 2015, 897, 81-86.	2.6	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.	2.8	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.	1.3	27
121	Super-Helically Twisted Strands of Poly(m-phenylene isophthalamide) (MPDI). <i>Macromolecules</i> , 2001, 34, 9053-9058.	2.2	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.	5.2	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.	1.4	25
124	Strain Relaxation and Vacancy Creation in Thin Platinum Films. <i>Physical Review Letters</i> , 2011, 107, 265501.	2.9	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.	0.8	25
126	Porosity and Structure of Hierarchically Porous Ni/Al ₂ O ₃ Catalysts for CO ₂ Methanation. <i>Catalysts</i> , 2020, 10, 1471.	1.6	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.	11.1	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.	5.6	25
129	Poly(4-vinylhexaphenylbenzene)s: A New Carbon-Rich Polymers. <i>Macromolecules</i> , 1998, 31, 6014-6021.	2.2	24
130	Ferrocenyl Functionalized Silver-Chalcogenide Nanoclusters. <i>Inorganic Chemistry</i> , 2011, 50, 3252-3261.	1.9	24
131	Challenges in quantitative crystallographic characterization of 3D thin films by ACOM-TEM. <i>Ultramicroscopy</i> , 2017, 173, 84-94.	0.8	23
132	Electron Beam Effects on Oxide Thin Films' Structure and Electrical Property Correlations. <i>Microscopy and Microanalysis</i> , 2019, 25, 592-600.	0.2	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.	0.2	22
134	Synthesis of transuranium-based nanocrystals via the thermal decomposition of actinyl nitrates. <i>RSC Advances</i> , 2013, 3, 18271.	1.7	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.	3.8	22
136	Controlled Solvothermal Routes to Hierarchical 3D Superparticles of Nanoscopic CdS. <i>Chemistry of Materials</i> , 2015, 27, 3666-3682.	3.2	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.	1.5	21
138	Combined Scanning Transmission Electron Microscopy Tilt- and Focal Series. <i>Microscopy and Microanalysis</i> , 2014, 20, 548-560.	0.2	21
139	Orientation dependent fracture behavior of nanotwinned copper. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	21
140	Luminescent CdSe Superstructures: A Nanocluster Superlattice and a Nanoporous Crystal. <i>Journal of the American Chemical Society</i> , 2017, 139, 1129-1144.	6.6	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.	2.2	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.	0.9	20
143	Light emission, light detection and strain sensing with nanocrystalline graphene. <i>Nanotechnology</i> , 2015, 26, 325202.	1.3	20
144	AuRu/AC as an effective catalyst for hydrogenation reactions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28171-28176.	1.3	20

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145	Size-Dependent Oxidation of Monodisperse Silicon Nanocrystals with Allylphenylsulfide Surfaces. <i>Small</i> , 2015, 11, 335-340.	5.2	20
146	In situ observation of deformation processes in nanocrystalline face-centered cubic metals. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 572-580.	1.5	20
147	Vanadium Oxyfluoride/Few-Layer Graphene Composite as a High-Performance Cathode Material for Lithium Batteries. <i>Inorganic Chemistry</i> , 2016, 55, 3789-3796.	1.9	20
148	Polyaramid-Based Flexible Antibacterial Coatings Fabricated Using Laser-Induced Carbonization and Copper Electroplating. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53193-53205.	4.0	20
149	Oligophenylenes as building blocks for well-defined graphite subunits. <i>Carbon</i> , 1998, 36, 827-831.	5.4	19
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