Christian KÃ¼bel

List of Publications by Year
in descending order

286 papers	11,437 citations	31976 53 h-index	39675 94 g-index
296 all docs	296 docs citations	296 times ranked	14886 citing authors

#	Article	IF	Citations
1	In Situ Generated Shear Bands in Metallic Glass Investigated by Atomic Force and Analytical Transmission Electron Microscopy. Metals, 2022, 12, 111.	2.3	4
2	Electron tomography of microelectronic device interconnects. International Journal of Materials Research, 2022, 97, 880-884.	0.3	0
3	Surface Noble Metal Concentration on Ceria as a Key Descriptor for Efficient Catalytic CO Oxidation. ACS Catalysis, 2022, 12, 2473-2486.	11.2	19
4	Digitization in Catalysis Research: Towards a Holistic Description of a Ni/Al₂O₃ Reference Catalyst for CO₂ Methanation. ChemCatChem, 2022, 14, .	3.7	14
5	Structural and Electrochemical Insights from the Fluorination of Disordered Mn-Based Rock Salt Cathode Materials. Chemistry of Materials, 2022, 34, 2268-2281.	6.7	13
6	Machine Learning Approach to Community Detection in a High-Entropy Alloy Interaction Network. ACS Omega, 2022, 7, 12978-12992.	3.5	5
7	Microstructural Study of MgB2 in the LiBH4-MgH2 Composite by Using TEM. Nanomaterials, 2022, 12, 1893.	4.1	5
8	Olefin Ringâ€closing Metathesis under Spatial Confinement: Morphologyâ^'Transport Relationships. ChemCatChem, 2021, 13, 281-292.	3.7	18
9	Generating digital twins of mesoporous silica by graph-based stochastic microstructure modeling. Computational Materials Science, 2021, 187, 109934.	3.0	8
10	Stabilizing self-assembled nano-objects using light-driven tetrazole chemistry. Polymer Chemistry, 2021, 12, 1627-1634.	3.9	5
11	Preparation of intergrown P/O-type biphasic layered oxides as high-performance cathodes for sodium ion batteries. Journal of Materials Chemistry A, 2021, 9, 13151-13160.	10.3	26
12	Comprehensive Characterization of a Mesoporous Cerium Oxide Nanomaterial with High Surface Area and High Thermal Stability. Langmuir, 2021, 37, 2563-2574.	3.5	11
13	In Situ TEM Observation of Cooperative Grain Rotations and the Bauschinger Effect in Nanocrystalline Palladium. Nanomaterials, 2021, 11, 432.	4.1	4
14	Encoding Information on the Excited State of a Molecular Spin Chain. Advanced Functional Materials, 2021, 31, 2009467.	14.9	7
15	Unveiling the Local Atomic Arrangements in the Shear Band Regions of Metallic Glass. Advanced Materials, 2021, 33, e2007267.	21.0	38
16	On the formation of Î±-alumina single crystal platelets through eggshell membrane bio-templating. Scripta Materialia, 2021, 195, 113716.	5.2	3
17	Li⁺/Na⁺ Ion Exchange in Layered Na_{2/3}(Ni_{0.25}Mn_{0.75})O₂: A Simple and Fast Way to Synthesize O3/O2-Type Layered Oxides. Chemistry of Materials, 2021, 33, 5606-5617.	6.7	16
18	Unveiling local atomic bonding and packing of amorphous nanophases via independent component analysis facilitated pair distribution function. Acta Materialia, 2021, 212, 116932.	7.9	13

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19	Insights into the intraparticle morphology of dendritic mesoporous silica nanoparticles from electron tomographic reconstructions. Journal of Colloid and Interface Science, 2021, 592, 296-309.	9.4	9
20	Construction of New Active Sites: Cu Substitution Enabled Surface Frustrated Lewis Pairs over Calcium Hydroxyapatite for CO₂ Hydrogenation. Advanced Science, 2021, 8, e2101382.	11.2	25
21	Symmetry and Topology of Twin Boundaries and Five-Fold Twin Boundaries in Soft Crystals. Langmuir, 2021, 37, 10291-10297.	3.5	6
22	New Insight into Desodiation/Sodiation Mechanism of MoS₂: Sodium Insertion in Amorphous Moâ€“S Clusters. ACS Applied Materials & Interfaces, 2021, 13, 40481-40488.	8.0	7
23	Quantifying the performance of a hybrid pixel detector with GaAs:Cr sensor for transmission electron microscopy. Ultramicroscopy, 2021, 227, 113298.	1.9	12
24	Grain boundary segregation induced precipitation in a non equiatomic nanocrystalline CoCuFeMnNi compositionally complex alloy. Acta Materialia, 2021, 220, 117281.	7.9	18
25	NaCl-template-based synthesis of TiO₂-Pd/Pt hollow nanospheres for H₂O₂ direct synthesis and CO oxidation. Nanoscale, 2021, 13, 2005-2011.	5.6	7
26	Tracing intermediate phases duringÂcrystallization in a Niâ€“Zr metallic glass. Acta Materialia, 2020, 186, 396-404.	7.9	8
27	Nanowire facilitated transfer of sensitive TEM samples in a FIB. Ultramicroscopy, 2020, 219, 113075.	1.9	6
28	Polyaramid-Based Flexible Antibacterial Coatings Fabricated Using Laser-Induced Carbonization and Copper Electroplating. ACS Applied Materials & Interfaces, 2020, 12, 53193-53205.	8.0	20
29	New frontier in printed thermoelectrics: formation of Î²-Ag₂Se through thermally stimulated dissociative adsorption leads to high ZT. Journal of Materials Chemistry A, 2020, 8, 16366-16375.	10.3	32
30	Flash Solidâ€“Solid Synthesis of Silicon Oxide Nanorods. Small, 2020, 16, 2001435.	10.0	2
31	Microfluidic Crystallization of Surfactant-Free Doped Zinc Sulfide Nanoparticles for Optical Bioimaging Applications. ACS Applied Materials & Interfaces, 2020, 12, 44074-44087.	8.0	13
32	Porosity and Structure of Hierarchically Porous Ni/Al2O3 Catalysts for CO2 Methanation. Catalysts, 2020, 10, 1471.	3.5	25
33	Designing Structurally Ordered Pt/Sn Nanoparticles in Ionic Liquids and their Enhanced Catalytic Performance. ChemNanoMat, 2020, 6, 1854-1862.	2.8	7
34	Morphologyâ€“transport relationships for SBA-15 and KIT-6 ordered mesoporous silicas. Physical Chemistry Chemical Physics, 2020, 22, 11314-11326.	2.8	37
35	First-time synthesis of a magnetoelectric coreâ€“shell compositeviaconventional solid-state reaction. Nanoscale, 2020, 12, 15677-15686.	5.6	11
36	Early deformation mechanisms in the shear affected region underneath a copper sliding contact. Nature Communications, 2020, 11, 839.	12.8	38

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37	Configurable Resistive Response in BaTiO₃ Ferroelectric Memristors via Electron Beam Radiation. Advanced Materials, 2020, 32, e1907541.	21.0	25
38	First results from in situ transmission electron microscopy studies of all-solid-state fluoride ion batteries. Journal of Power Sources, 2020, 466, 228283.	7.8	10
39	Understanding Structure Changes during Cycling of MoS2-based Mg Batteries. Microscopy and Microanalysis, 2019, 25, 2042-2043.	0.4	0
40	Nanocrystalline graphene at high temperatures: insight into nanoscale processes. Nanoscale Advances, 2019, 1, 2485-2494.	4.6	10
41	4D-STEM Pair Distribution Function Mapping of the Morphology and Structure of Amorphous Organic Materials. Microscopy and Microanalysis, 2019, 25, 1944-1945.	0.4	1
42	Understanding Hindered Diffusion & Flow in Hierarchical Porous Networks Combining Electron Tomography and Pore-Scale Simulations. Microscopy and Microanalysis, 2019, 25, 406-407.	0.4	1
43	Quantifying the 3D Distribution of Pd Nanocatalysts Supported on Mesoporous Carbon for Furfural Hydrogenation. Microscopy and Microanalysis, 2019, 25, 426-427.	0.4	0
44	Quantifying Morphology and Diffusion Properties of Mesoporous Carbon From High-Fidelity 3D Reconstructions. Microscopy and Microanalysis, 2019, 25, 891-902.	0.4	10
45	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
46	Hetero-layered MoS2/C composites enabling ultrafast and durable Na storage. Energy Storage Materials, 2019, 21, 115-123.	18.0	46
47	Nickel@Siloxene catalytic nanosheets for high-performance CO2 methanation. Nature Communications, 2019, 10, 2608.	12.8	104
48	Grain growth mechanisms in ultrafine-grained steel: an electron backscatter diffraction and in situ TEM study. Journal of Materials Science, 2019, 54, 10489-10505.	3.7	2
49	Hierarchical MoS₂â€“carbon porous nanorods towards atomic interfacial engineering for high-performance lithium storage. Journal of Materials Chemistry A, 2019, 7, 7553-7564.	10.3	31
50	Electron Beam Effects on Oxide Thin Filmsâ€”Structure and Electrical Property Correlations. Microscopy and Microanalysis, 2019, 25, 592-600.	0.4	23
51	Transport under confinement: Hindrance factors for diffusion in core-shell and fully porous particles with different mesopore space morphologies. Microporous and Mesoporous Materials, 2019, 282, 188-196.	4.4	21
52	Light Driven Water Oxidation Coupled With Câ€Ν Coupling Reaction Using a Hybrid Cuâ€PW₁₂O₄₀ Based Softâ€Oxometalate. ChemistrySelect, 2019, 4, 1994-2000.	1.5	5
53	Digital reality: a model-based approach to supervised learning from synthetic data. AI Perspectives, 2019, 1, .	3.9	18
54	(De)Lithiation Mechanism of Hierarchically Layered LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathodes during High-Voltage Cycling. Journal of the Electrochemical Society, 2019, 166, A5025-A5032.	2.9	27

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55	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
56	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
57	3D Nanofabrication via Chemoâ€Mechanical Transformation of Nanocrystal/Bulk Heterostructures. Advanced Materials, 2018, 30, e1800233.	21.0	15
58	Low temperature structural stability of Fe₉₀Sc₁₀ nanoglasses. Materials Research Letters, 2018, 6, 178-183.	8.7	4
59	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
60	Nano and micro U1-Th O2 solid solutions: From powders to pellets. Journal of Nuclear Materials, 2018, 498, 307-313.	2.7	30
61	Tailoring Surface Frustrated Lewis Pairs of In₂O_{3â^'}_x(OH)_y for Gasâ€Phase Heterogeneous Photocatalytic Reduction of CO₂ by Isomorphous Substitution of In³⁺ with Bi³⁺. Advanced Science, 2018, 5, 1700732.	11.2	91
62	Facile synthesis of Câ€“FeF₂ nanocomposites from CFx: influence of carbon precursor on reversible lithium storage. RSC Advances, 2018, 8, 36802-36811.	3.6	13
63	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
64	Structure and Properties of Nanoglasses. Advanced Engineering Materials, 2018, 20, 1800404.	3.5	42
65	Evolution of Glassy Carbon Microstructure: In Situ Transmission Electron Microscopy of the Pyrolysis Process. Scientific Reports, 2018, 8, 16282.	3.3	58
66	Electron Beam Effects on Silicon Oxide Films â€“ Structure and Electrical Properties. Microscopy and Microanalysis, 2018, 24, 1810-1811.	0.4	1
67	Bombyx mori silk/titania/gold hybrid materials for photocatalytic water splitting: combining renewable raw materials with clean fuels. Beilstein Journal of Nanotechnology, 2018, 9, 187-204.	2.8	3
68	Hindered Diffusion in Ordered Mesoporous Silicas: Insights from Pore-Scale Simulations in Physical Reconstructions of SBA-15 and KIT-6 Silica. Journal of Physical Chemistry C, 2018, 122, 12350-12361.	3.1	56
69	The effect of tungsten on microstructure and mechanical performance of an ultrafine Fe-Cr steel. Materials Letters, 2018, 227, 292-295.	2.6	10
70	Solar Fuels: Tailoring Surface Frustrated Lewis Pairs of In₂O_{3â^'}_x(OH)_y for Gasâ€Phase Heterogeneous Photocatalytic Reduction of CO₂ by Isomorphous Substitution of In³⁺ with Bi³⁺ (Adv. Sci. 6/2018). Advanced Science, 2018, 5, 1870034.	11.2	3
71	Towards 3D crystal orientation reconstruction using automated crystal orientation mapping transmission electron microscopy (ACOM-TEM). Beilstein Journal of Nanotechnology, 2018, 9, 602-607.	2.8	4
72	Anion Doping of Ferromagnetic Thin Films of La0.74Sr0.26MnO3â^'Î´ via Topochemical Fluorination. Materials, 2018, 11, 1204.	2.9	15

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73	Exemplar-based inpainting as a solution to the missing wedge problem in electron tomography. Ultramicroscopy, 2018, 191, 1-10.	1.9	11
74	High entropy oxides for reversible energy storage. Nature Communications, 2018, 9, 3400.	12.8	643
75	MOF-templated synthesis of 3D Bi2O3 supracrystals with bcc packing. Nanoscale, 2018, 10, 17099-17104.	5.6	1
76	Tailoring the 3D Structure of Pd Nanocatalysts Supported on Mesoporous Carbon for Furfural Hydrogenation. ChemNanoMat, 2018, 4, 1125-1132.	2.8	17
77	Electron Tomography for 3D Imaging of Nanoscale Materials. Praktische Metallographie/Practical Metallography, 2018, 55, 527-538.	0.3	1
78	Luminescent CdSe Superstructures: A Nanocluster Superlattice and a Nanoporous Crystal. Journal of the American Chemical Society, 2017, 139, 1129-1144.	13.7	21
79	Sizeâ€Tunable Photothermal Germanium Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 6329-6334.	13.8	47
80	A Dendritic Amphiphile for Efficient Control of Biomimetic Calcium Phosphate Mineralization. Macromolecular Bioscience, 2017, 17, 1600524.	4.1	5
81	CuF₂ as Reversible Cathode for Fluoride Ion Batteries. Advanced Functional Materials, 2017, 27, 1701051.	14.9	112
82	Spatial separation of photogenerated electronâ€“hole pairs in solution-grown ZnO tandem nâ€“p coreâ€“shell nanowire arrays toward highly sensitive photoelectrochemical detection of hydrogen peroxide. Journal of Materials Chemistry A, 2017, 5, 14397-14405.	10.3	19
83	Solution Growth of Ultralong Gold Nanohelices. ACS Nano, 2017, 11, 5538-5546.	14.6	30
84	Size-induced changes of structural and ferromagnetic properties in La1-xSrxMnO3 nanoparticles. Journal of Applied Physics, 2017, 121, .	2.5	11
85	Conductivity Optimization of Tysonite-type La_{1â€“x}Ba_xF_{3â€“x} Solid Electrolytes for Advanced Fluoride Ion Battery. ACS Applied Materials & Interfaces, 2017, 9, 23707-23715.	8.0	58
86	Enhanced cellular uptake of size-separated lipophilic silicon nanoparticles. Scientific Reports, 2017, 7, 43731.	3.3	10
87	Bimetallic Pt/Snâ€based Nanoparticles in Ionic Liquids as Nanocatalysts for the Selective Hydrogenation of Cinnamaldehyde. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 120-129.	1.2	19
88	Direct Evidence of Significant Cation Intermixing in Upconverting Core@Shell Nanocrystals: Toward a New Crystallochemical Model. Chemistry of Materials, 2017, 29, 9238-9246.	6.7	66
89	Cholesteryl Hemisuccinate Monolayers Efficiently Control Calcium Phosphate Nucleation and Growth. Crystal Growth and Design, 2017, 17, 5764-5774.	3.0	4
90	Toward new gas-analytical multisensor chips based on titanium oxide nanotube array. Scientific Reports, 2017, 7, 9732.	3.3	32

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91	In depth nano spectroscopic analysis on homogeneously switching double barrier memristive devices. Journal of Applied Physics, 2017, 121, 245307.	2.5	14
92	Understanding the graphitization and growth of free-standing nanocrystalline graphene using in situ transmission electron microscopy. Nanoscale, 2017, 9, 12835-12842.	5.6	27
93	Subâ€50 nm Channel Vertical Fieldâ€Effect Transistors using Conventional Inkâ€Jet Printing. Advanced Materials, 2017, 29, 1603858.	21.0	30
94	Multicomponent equiatomic rare earth oxides. Materials Research Letters, 2017, 5, 102-109.	8.7	236
95	Challenges in quantitative crystallographic characterization of 3D thin films by ACOM-TEM. Ultramicroscopy, 2017, 173, 84-94.	1.9	23
96	Grain boundary diffusion of different rare earth elements in Nd-Fe-B sintered magnets by experiment and FEM simulation. Acta Materialia, 2017, 124, 421-429.	7.9	111
97	Imaging the Structural Evolution in Nanocrystalline Metals during Mechanical Deformation. Microscopy and Microanalysis, 2017, 23, 748-749.	0.4	0
98	Understanding the Self-Assembly of a Janus-type POM-POSS Co-Cluster from Low-dose Cryo STEM. Microscopy and Microanalysis, 2017, 23, 1874-1875.	0.4	0
99	Dry adhesives from carbon nanofibers grown in an open ethanol flame. Beilstein Journal of Nanotechnology, 2017, 8, 2719-2728.	2.8	4
100	In situ observation of deformation processes in nanocrystalline face-centered cubic metals. Beilstein Journal of Nanotechnology, 2016, 7, 572-580.	2.8	20
101	Radial Distribution Function Imaging by Diffraction Scanning Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 488-489.	0.4	1
102	Vanadium Oxyfluoride/Few-Layer Graphene Composite as a High-Performance Cathode Material for Lithium Batteries. Inorganic Chemistry, 2016, 55, 3789-3796.	4.0	20
103	Combined Tilt- and Focal-Series Tomography for HAADF-STEM. Microscopy Today, 2016, 24, 26-31.	0.3	1
104	Spatial Separation of Charge Carriers in In₂O_{3â€“x}(OH)_y Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. ACS Nano, 2016, 10, 5578-5586.	14.6	118
105	Comprehensive analysis of TEM methods for LiFePO4/FePO4 phase mapping: spectroscopic techniques (EFTEM, STEM-EELS) and STEM diffraction techniques (ACOM-TEM). Ultramicroscopy, 2016, 170, 10-18.	1.9	30
106	Influence of gas atmospheres and ceria on the stability of nanoporous gold studied by environmental electron microscopy and in situ ptychography. RSC Advances, 2016, 6, 83031-83043.	3.6	18
107	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
108	Two-dimensional percolation threshold in confined Si nanoparticle networks. Applied Physics Letters, 2016, 108, .	3.3	28

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109	In situ TEM studies of micronâ€sized allâ€solidâ€state fluoride ion batteries: Preparation, prospects, and challenges. Microscopy Research and Technique, 2016, 79, 615-624.	2.2	29
110	Picosecond dynamics of photoexcited carriers in interacting silicon nanocrystals. Applied Surface Science, 2016, 377, 238-243.	6.1	5
111	Radial distribution function imaging by STEM diffraction: Phase mapping and analysis of heterogeneous nanostructured glasses. Ultramicroscopy, 2016, 168, 1-6.	1.9	52
112	Grain boundary diffusion in nanocrystalline Nd-Fe-B permanent magnets with low-melting eutectics. Acta Materialia, 2016, 115, 354-363.	7.9	73
113	Nanoscale morphology of Ni50Ti45Cu5 nanoglass. Materials Characterization, 2016, 113, 26-33.	4.4	49
114	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
115	Bi₂O₃nanoparticles encapsulated in surface mounted metalâ€“organic framework thin films. Nanoscale, 2016, 8, 6468-6472.	5.6	30
116	Mechanical Milling Assisted Synthesis and Electrochemical Performance of High Capacity LiFeBO₃ for Lithium Batteries. ACS Applied Materials & Interfaces, 2016, 8, 2166-2172.	8.0	18
117	Performance study of magnesiumâ€“sulfur battery using a graphene based sulfur composite cathode electrode and a non-nucleophilic Mg electrolyte. Nanoscale, 2016, 8, 3296-3306.	5.6	247
118	Orientation dependent fracture behavior of nanotwinned copper. Applied Physics Letters, 2015, 106, .	3.3	21
119	A Filledâ€Honeycombâ€Structured Crystal Formed by Selfâ€Assembly of a Janus Polyoxometalateâ€“Silsesquioxane (POMâ€“POSS) Coâ€Cluster. Angewandte Chemie - International Edition, 2015, 54, 15699-15704.	13.8	74
120	Observing the morphology of single-layered embedded silicon nanocrystals by using temperature-stable TEM membranes. Beilstein Journal of Nanotechnology, 2015, 6, 964-970.	2.8	28
121	Fatigue Behavior of Ultrafine-Grained Medium Carbon Steel with Different Carbide Morphologies Processed by High Pressure Torsion. Metals, 2015, 5, 891-909.	2.3	12
122	Enhanced low-temperature lithium storage performance of multilayer graphene made through an improved ionic liquid-assisted synthesis. Journal of Power Sources, 2015, 281, 318-325.	7.8	55
123	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
124	On ball-milled ODS ferritic steel recrystallization: From as-milled powder particles to consolidated state. Journal of Materials Science, 2015, 50, 2202-2217.	3.7	28
125	Structural study of growth, orientation and defects characteristics in the functional microelectromechanical system material aluminium nitride. Journal of Applied Physics, 2015, 117, 014301.	2.5	10
126	Chemical Vapor Synthesis of FeO_xâ€“BaTiO₃ Nanocomposites. Journal of the American Ceramic Society, 2015, 98, 1724-1730.	3.8	0

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127	Nanoporous-gold-based composites: toward tensile ductility. NPG Asia Materials, 2015, 7, e187-e187.	7.9	57
128	Light emission, light detection and strain sensing with nanocrystalline graphene. Nanotechnology, 2015, 26, 325202.	2.6	20
129	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
130	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
131	AuRu/AC as an effective catalyst for hydrogenation reactions. Physical Chemistry Chemical Physics, 2015, 17, 28171-28176.	2.8	20
132	Controlled Solvothermal Routes to Hierarchical 3D Superparticles of Nanoscopic CdS. Chemistry of Materials, 2015, 27, 3666-3682.	6.7	22
133	Nanotwinned silver nanowires: Structure and mechanical properties. Acta Materialia, 2015, 92, 299-308.	7.9	36
134	Potassium polytitanate gas-sensor study by impedance spectroscopy. Analytica Chimica Acta, 2015, 897, 81-86.	5.4	27
135	Charge generation layers for all-solution processed organic tandem light emitting diodes with regular device architecture. , 2015, , .		0
136	Size-Dependent Oxidation of Monodisperse Silicon Nanocrystals with Allylphenylsulfide Surfaces. Small, 2015, 11, 335-340.	10.0	20
137	Sizeâ€Selective Separation and Purification of â€œWaterâ€Solubleâ€•Organically Capped Brightly Photoluminescent Silicon Nanocrystals. Particle and Particle Systems Characterization, 2015, 32, 301-306.	2.3	10
138	Self-organization of mesoscopic silver wires by electrochemical deposition. Beilstein Journal of Nanotechnology, 2014, 5, 1285-1290.	2.8	3
139	Evolution of the surface plasmon resonance of Au:TiO2 nanocomposite thin films with annealing temperature. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	27
140	Growth of Nanolaminates of Thermoelectric Bi2Te3/Sb2Te3by Atomic Layer Deposition. ECS Journal of Solid State Science and Technology, 2014, 3, P95-P100.	1.8	12
141	Formation of size controlled silicon nanocrystals in nitrogen free silicon dioxide matrix prepared by plasma enhanced chemical vapor deposition. Journal of Applied Physics, 2014, 116, .	2.5	28
142	Exchange bias in UO2/Fe3O4 thin films above the NÃ©el temperature of UO2. Applied Physics Letters, 2014, 105, .	3.3	10
143	Plasticity mechanisms in ultrafine grained freestanding aluminum thin films revealed by in-situ transmission electron microscopy nanomechanical testing. Applied Physics Letters, 2014, 104, .	3.3	32
144	Synthesis and characterization of PbTe thin films by atomic layer deposition. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1329-1333.	1.8	6

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145	Reversible In-Situ TEM Electrochemical studies of Fluoride Ion Battery. Microscopy and Microanalysis, 2014, 20, 1620-1621.	0.4	3
146	Dynamic Control Over Electronic Transport in 3D Bulk Nanographene via Interfacial Charging. Advanced Functional Materials, 2014, 24, 3494-3500.	14.9	8
147	Thorium/uranium mixed oxide nanocrystals: Synthesis, structural characterization and magnetic properties. Nano Research, 2014, 7, 119-131.	10.4	46
148	Untangling dislocation and grain boundary mediated plasticity in nanocrystalline nickel. Acta Materialia, 2014, 65, 295-307.	7.9	53
149	Effect of oxygen on the microstructure and hydrogen storage properties of Vâ€“Tiâ€“Crâ€“Fe quaternary solid solutions. International Journal of Hydrogen Energy, 2014, 39, 20000-20008.	7.1	22
150	Morphological Analysis of Disordered Macroporousâ€“Mesoporous Solids Based on Physical Reconstruction by Nanoscale Tomography. Langmuir, 2014, 30, 9022-9027.	3.5	63
151	Electrochemical Delithiation/Relithiation of LiCoPO₄: A Two-Step Reaction Mechanism Investigated by in Situ X-ray Diffraction, in Situ X-ray Absorption Spectroscopy, and ex Situ ⁷Li/³¹P NMR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 17279-17290.	3.1	52
152	Ultraâ€Small Plutonium Oxide Nanocrystals: An Innovative Material in Plutonium Science. Chemistry - A European Journal, 2014, 20, 10431-10438.	3.3	40
153	Decomposition of amorphous Si2C by thermal annealing. Thin Solid Films, 2014, 552, 232-240.	1.8	8
154	Strengthening zones in the Co matrix of WCâ€“Co cemented carbides. Scripta Materialia, 2014, 83, 17-20.	5.2	98
155	Density changes in shear bands of a metallic glass determined by correlative analytical transmission electron microscopy. Ultramicroscopy, 2014, 142, 1-9.	1.9	108
156	Variation of the deformation mechanisms in a nanocrystalline Pdâ€“10at.% Au alloy at room and cryogenic temperatures. International Journal of Plasticity, 2014, 60, 40-57.	8.8	14
157	Fluorine incorporation into SnO2 nanoparticles by co-milling with polyvinylidene fluoride. Solid State Sciences, 2014, 30, 36-43.	3.2	15
158	Self-assembly of a neutral platinum(<scp>ii</scp>) complex into highly emitting microcrystalline fibers through metallophilic interactions. Chemical Communications, 2014, 50, 7269-7272.	4.1	86
159	Separation of Double-Walled Carbon Nanotubes by Size Exclusion Column Chromatography. ACS Nano, 2014, 8, 6756-6764.	14.6	33
160	Atomic Layer Deposition of Nanolaminate Structures of Alternating PbTe and PbSe Thermoelectric Films. ECS Journal of Solid State Science and Technology, 2014, 3, P207-P212.	1.8	8
161	LiF/Fe/V2O5 nanocomposite as high capacity cathode for lithium ion batteries. Journal of Power Sources, 2014, 267, 203-211.	7.8	11
162	The influence of molecular mobility on the properties of networks of gold nanoparticles and organic ligands. Beilstein Journal of Nanotechnology, 2014, 5, 1664-1674.	2.8	4

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163	TFS: Combined Tilt- and Focal Series Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 786-787.	0.4	2
164	Combined Scanning Transmission Electron Microscopy Tilt- and Focal Series. Microscopy and Microanalysis, 2014, 20, 548-560.	0.4	21
165	Synthesis of in situ functionalized iron oxide nanoparticles presenting alkyne groups via a continuous process using near-critical and supercritical water. Journal of Supercritical Fluids, 2013, 82, 83-95.	3.2	17
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