

Christian KÃ¼bel

List of Publications by Year in descending order

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286
papers

11,437
citations

31902

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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. <i>Metals</i> , 2022, 12, 111.	1.0	4
2	Electron tomography of microelectronic device interconnects. <i>International Journal of Materials Research</i> , 2022, 97, 880-884.	0.1	0
3	Surface Noble Metal Concentration on Ceria as a Key Descriptor for Efficient Catalytic CO Oxidation. <i>ACS Catalysis</i> , 2022, 12, 2473-2486.	5.5	19
4	Digitization in Catalysis Research: Towards a Holistic Description of a Ni/Al ₂ O ₃ Reference Catalyst for CO ₂ Methanation. <i>ChemCatChem</i> , 2022, 14, .	1.8	14
5	Structural and Electrochemical Insights from the Fluorination of Disordered Mn-Based Rock Salt Cathode Materials. <i>Chemistry of Materials</i> , 2022, 34, 2268-2281.	3.2	13
6	Machine Learning Approach to Community Detection in a High-Entropy Alloy Interaction Network. <i>ACS Omega</i> , 2022, 7, 12978-12992.	1.6	5
7	Microstructural Study of MgB ₂ in the LiBH ₄ -MgH ₂ Composite by Using TEM. <i>Nanomaterials</i> , 2022, 12, 1893.	1.9	5
8	Olefin Ring-Closing Metathesis under Spatial Confinement: Morphology-Transport Relationships. <i>ChemCatChem</i> , 2021, 13, 281-292.	1.8	18
9	Generating digital twins of mesoporous silica by graph-based stochastic microstructure modeling. <i>Computational Materials Science</i> , 2021, 187, 109934.	1.4	8
10	Stabilizing self-assembled nano-objects using light-driven tetrazole chemistry. <i>Polymer Chemistry</i> , 2021, 12, 1627-1634.	1.9	5
11	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
12	Comprehensive Characterization of a Mesoporous Cerium Oxide Nanomaterial with High Surface Area and High Thermal Stability. <i>Langmuir</i> , 2021, 37, 2563-2574.	1.6	11
13	In Situ TEM Observation of Cooperative Grain Rotations and the Bauschinger Effect in Nanocrystalline Palladium. <i>Nanomaterials</i> , 2021, 11, 432.	1.9	4
14	Encoding Information on the Excited State of a Molecular Spin Chain. <i>Advanced Functional Materials</i> , 2021, 31, 2009467.	7.8	7
15	Unveiling the Local Atomic Arrangements in the Shear Band Regions of Metallic Glass. <i>Advanced Materials</i> , 2021, 33, e2007267.	11.1	38
16	On the formation of γ -alumina single crystal platelets through eggshell membrane bio-templating. <i>Scripta Materialia</i> , 2021, 195, 113716.	2.6	3
17	Li ⁺ /Na ⁺ Ion Exchange in Layered Na _{2/3} (Ni _{0.25} Mn _{0.75})O ₂ : A Simple and Fast Way to Synthesize O ₃ /O ₂ -Type Layered Oxides. <i>Chemistry of Materials</i> , 2021, 33, 5606-5617.	3.2	16
18	Unveiling local atomic bonding and packing of amorphous nanophases via independent component analysis facilitated pair distribution function. <i>Acta Materialia</i> , 2021, 212, 116932.	3.8	13

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19	Insights into the intraparticle morphology of dendritic mesoporous silica nanoparticles from electron tomographic reconstructions. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 296-309.	5.0	9
20	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
21	Symmetry and Topology of Twin Boundaries and Five-Fold Twin Boundaries in Soft Crystals. <i>Langmuir</i> , 2021, 37, 10291-10297.	1.6	6
22	New Insight into Desodiation/Sodiation Mechanism of MoS ₂ : Sodium Insertion in Amorphous MoS Clusters. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40481-40488.	4.0	7
23	Quantifying the performance of a hybrid pixel detector with GaAs:Cr sensor for transmission electron microscopy. <i>Ultramicroscopy</i> , 2021, 227, 113298.	0.8	12
24	Grain boundary segregation induced precipitation in a non equiatomic nanocrystalline CoCuFeMnNi compositionally complex alloy. <i>Acta Materialia</i> , 2021, 220, 117281.	3.8	18
25	NaCl-template-based synthesis of TiO ₂ -Pd/Pt hollow nanospheres for H ₂ O ₂ direct synthesis and CO oxidation. <i>Nanoscale</i> , 2021, 13, 2005-2011.	2.8	7
26	Tracing intermediate phases during crystallization in a Ni-Zr metallic glass. <i>Acta Materialia</i> , 2020, 186, 396-404.	3.8	8
27	Nanowire facilitated transfer of sensitive TEM samples in a FIB. <i>Ultramicroscopy</i> , 2020, 219, 113075.	0.8	6
28	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
29	New frontier in printed thermoelectrics: formation of $\hat{\Gamma}^2$ -Ag ₂ Se through thermally stimulated dissociative adsorption leads to high ZT . <i>Journal of Materials Chemistry A</i> , 2020, 8, 16366-16375.	5.2	32
30	Flash Solid-Solid Synthesis of Silicon Oxide Nanorods. <i>Small</i> , 2020, 16, 2001435.	5.2	2
31	Microfluidic Crystallization of Surfactant-Free Doped Zinc Sulfide Nanoparticles for Optical Bioimaging Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44074-44087.	4.0	13
32	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
33	Designing Structurally Ordered Pt/Sn Nanoparticles in Ionic Liquids and their Enhanced Catalytic Performance. <i>ChemNanoMat</i> , 2020, 6, 1854-1862.	1.5	7
34	Morphology-transport relationships for SBA-15 and KIT-6 ordered mesoporous silicas. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11314-11326.	1.3	37
35	First-time synthesis of a magnetoelectric core-shell composite via conventional solid-state reaction. <i>Nanoscale</i> , 2020, 12, 15677-15686.	2.8	11
36	Early deformation mechanisms in the shear affected region underneath a copper sliding contact. <i>Nature Communications</i> , 2020, 11, 839.	5.8	38

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37	Configurable Resistive Response in BaTiO ₃ Ferroelectric Memristors via Electron Beam Radiation. <i>Advanced Materials</i> , 2020, 32, e1907541.	11.1	25
38	First results from in situ transmission electron microscopy studies of all-solid-state fluoride ion batteries. <i>Journal of Power Sources</i> , 2020, 466, 228283.	4.0	10
39	Understanding Structure Changes during Cycling of MoS ₂ -based Mg Batteries. <i>Microscopy and Microanalysis</i> , 2019, 25, 2042-2043.	0.2	0
40	Nanocrystalline graphene at high temperatures: insight into nanoscale processes. <i>Nanoscale Advances</i> , 2019, 1, 2485-2494.	2.2	10
41	4D-STEM Pair Distribution Function Mapping of the Morphology and Structure of Amorphous Organic Materials. <i>Microscopy and Microanalysis</i> , 2019, 25, 1944-1945.	0.2	1
42	Understanding Hindered Diffusion & Flow in Hierarchical Porous Networks Combining Electron Tomography and Pore-Scale Simulations. <i>Microscopy and Microanalysis</i> , 2019, 25, 406-407.	0.2	1
43	Quantifying the 3D Distribution of Pd Nanocatalysts Supported on Mesoporous Carbon for Furfural Hydrogenation. <i>Microscopy and Microanalysis</i> , 2019, 25, 426-427.	0.2	0
44	Quantifying Morphology and Diffusion Properties of Mesoporous Carbon From High-Fidelity 3D Reconstructions. <i>Microscopy and Microanalysis</i> , 2019, 25, 891-902.	0.2	10
45	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
46	Hetero-layered MoS ₂ /C composites enabling ultrafast and durable Na storage. <i>Energy Storage Materials</i> , 2019, 21, 115-123.	9.5	46
47	Nickel@Siloxene catalytic nanosheets for high-performance CO ₂ methanation. <i>Nature Communications</i> , 2019, 10, 2608.	5.8	104
48	Grain growth mechanisms in ultrafine-grained steel: an electron backscatter diffraction and in situ TEM study. <i>Journal of Materials Science</i> , 2019, 54, 10489-10505.	1.7	2
49	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
50	Electron Beam Effects on Oxide Thin Films—Structure and Electrical Property Correlations. <i>Microscopy and Microanalysis</i> , 2019, 25, 592-600.	0.2	23
51	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
52	Light Driven Water Oxidation Coupled With C≡N Coupling Reaction Using a Hybrid Cu ₁₂ O ₄₀ Based Soft@Oxometalate. <i>ChemistrySelect</i> , 2019, 4, 1994-2000.	0.7	5
53	Digital reality: a model-based approach to supervised learning from synthetic data. <i>AI Perspectives</i> , 2019, 1, .	2.4	18
54	(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

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55	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
56	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
57	3D Nanofabrication via Chemo-Mechanical Transformation of Nanocrystal/Bulk Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1800233.	11.1	15
58	Low temperature structural stability of Fe ₉₀ Sc ₁₀ nanoglasses. <i>Materials Research Letters</i> , 2018, 6, 178-183.	4.1	4
59	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
60	Nano and micro U1-Th O2 solid solutions: From powders to pellets. <i>Journal of Nuclear Materials</i> , 2018, 498, 307-313.	1.3	30
61	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.	5.6	91
62	Facile synthesis of FeF ₂ nanocomposites from CFx: influence of carbon precursor on reversible lithium storage. <i>RSC Advances</i> , 2018, 8, 36802-36811.	1.7	13
63	Fast kinetics of multivalent intercalation chemistry enabled by solvated magnesium-ions into self-established metallic layered materials. <i>Nature Communications</i> , 2018, 9, 5115.	5.8	114
64	Structure and Properties of Nanoglasses. <i>Advanced Engineering Materials</i> , 2018, 20, 1800404.	1.6	42
65	Evolution of Glassy Carbon Microstructure: In Situ Transmission Electron Microscopy of the Pyrolysis Process. <i>Scientific Reports</i> , 2018, 8, 16282.	1.6	58
66	Electron Beam Effects on Silicon Oxide Films – Structure and Electrical Properties. <i>Microscopy and Microanalysis</i> , 2018, 24, 1810-1811.	0.2	1
67	<i>Bombyx mori</i> silk/titania/gold hybrid materials for photocatalytic water splitting: combining renewable raw materials with clean fuels. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 187-204.	1.5	3
68	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
69	The effect of tungsten on microstructure and mechanical performance of an ultrafine Fe-Cr steel. <i>Materials Letters</i> , 2018, 227, 292-295.	1.3	10
70	Solar Fuels: 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⁺ . (Adv. Sci. 6/2018). <i>Advanced Science</i> , 2018, 5, 1870034.	5.6	3
71	Towards 3D crystal orientation reconstruction using automated crystal orientation mapping transmission electron microscopy (ACOM-TEM). <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 602-607.	1.5	4
72	Anion Doping of Ferromagnetic Thin Films of La _{0.74} Sr _{0.26} MnO ₃ via Topochemical Fluorination. <i>Materials</i> , 2018, 11, 1204.	1.3	15

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73	Exemplar-based inpainting as a solution to the missing wedge problem in electron tomography. <i>Ultramicroscopy</i> , 2018, 191, 1-10.	0.8	11
74	High entropy oxides for reversible energy storage. <i>Nature Communications</i> , 2018, 9, 3400.	5.8	643
75	MOF-templated synthesis of 3D Bi ₂ O ₃ supracrystals with bcc packing. <i>Nanoscale</i> , 2018, 10, 17099-17104.	2.8	1
76	Tailoring the 3D Structure of Pd Nanocatalysts Supported on Mesoporous Carbon for Furfural Hydrogenation. <i>ChemNanoMat</i> , 2018, 4, 1125-1132.	1.5	17
77	Electron Tomography for 3D Imaging of Nanoscale Materials. <i>Praktische Metallographie/Practical Metallography</i> , 2018, 55, 527-538.	0.1	1
78	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
79	Size-tunable Photothermal Germanium Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6329-6334.	7.2	47
80	A Dendritic Amphiphile for Efficient Control of Biomimetic Calcium Phosphate Mineralization. <i>Macromolecular Bioscience</i> , 2017, 17, 1600524.	2.1	5
81	CuF ₂ as Reversible Cathode for Fluoride Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1701051.	7.8	112
82	Spatial separation of photogenerated electron-hole pairs in solution-grown ZnO tandem core-shell nanowire arrays toward highly sensitive photoelectrochemical detection of hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14397-14405.	5.2	19
83	Solution Growth of Ultralong Gold Nanohelices. <i>ACS Nano</i> , 2017, 11, 5538-5546.	7.3	30
84	Size-induced changes of structural and ferromagnetic properties in La _{1-x} Sr _x MnO ₃ nanoparticles. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	11
85	Conductivity Optimization of Tysonite-type La _x Ba _{1-x} F ₃ Solid Electrolytes for Advanced Fluoride Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23707-23715.	4.0	58
86	Enhanced cellular uptake of size-separated lipophilic silicon nanoparticles. <i>Scientific Reports</i> , 2017, 7, 43731.	1.6	10
87	Bimetallic Pt/Sn-based Nanoparticles in Ionic Liquids as Nanocatalysts for the Selective Hydrogenation of Cinnamaldehyde. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 120-129.	0.6	19
88	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
89	Cholesteryl Hemisuccinate Monolayers Efficiently Control Calcium Phosphate Nucleation and Growth. <i>Crystal Growth and Design</i> , 2017, 17, 5764-5774.	1.4	4
90	Toward new gas-analytical multisensor chips based on titanium oxide nanotube array. <i>Scientific Reports</i> , 2017, 7, 9732.	1.6	32

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91	In depth nano spectroscopic analysis on homogeneously switching double barrier memristive devices. <i>Journal of Applied Physics</i> , 2017, 121, 245307.	1.1	14
92	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
93	Sub-50 nm Channel Vertical Field-Effect Transistors using Conventional Ink-Jet Printing. <i>Advanced Materials</i> , 2017, 29, 1603858.	11.1	30
94	Multicomponent equiatomic rare earth oxides. <i>Materials Research Letters</i> , 2017, 5, 102-109.	4.1	236
95	Challenges in quantitative crystallographic characterization of 3D thin films by ACOM-TEM. <i>Ultramicroscopy</i> , 2017, 173, 84-94.	0.8	23
96	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
97	Imaging the Structural Evolution in Nanocrystalline Metals during Mechanical Deformation. <i>Microscopy and Microanalysis</i> , 2017, 23, 748-749.	0.2	0
98	Understanding the Self-Assembly of a Janus-type POM-POSS Co-Cluster from Low-dose Cryo STEM. <i>Microscopy and Microanalysis</i> , 2017, 23, 1874-1875.	0.2	0
99	Dry adhesives from carbon nanofibers grown in an open ethanol flame. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2719-2728.	1.5	4
100	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
101	Radial Distribution Function Imaging by Diffraction Scanning Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 488-489.	0.2	1
102	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
103	Combined Tilt- and Focal-Series Tomography for HAADF-STEM. <i>Microscopy Today</i> , 2016, 24, 26-31.	0.2	1
104	Spatial Separation of Charge Carriers in In_2O_3 -(OH) Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. <i>ACS Nano</i> , 2016, 10, 5578-5586.	7.3	118
105	Comprehensive analysis of TEM methods for $\text{LiFePO}_4/\text{FePO}_4$ phase mapping: spectroscopic techniques (EFTEM, STEM-EELS) and STEM diffraction techniques (ACOM-TEM). <i>Ultramicroscopy</i> , 2016, 170, 10-18.	0.8	30
106	Influence of gas atmospheres and ceria on the stability of nanoporous gold studied by environmental electron microscopy and in situ ptychography. <i>RSC Advances</i> , 2016, 6, 83031-83043.	1.7	18
107	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
108	Two-dimensional percolation threshold in confined Si nanoparticle networks. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	28

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109	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
110	Picosecond dynamics of photoexcited carriers in interacting silicon nanocrystals. <i>Applied Surface Science</i> , 2016, 377, 238-243.	3.1	5
111	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
112	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
113	Nanoscale morphology of Ni ₅₀ Ti ₄₅ Cu ₅ nanoglass. <i>Materials Characterization</i> , 2016, 113, 26-33.	1.9	49
114	Development of a water based process for stable conversion cathodes on the basis of Fe ₃ . <i>Journal of Power Sources</i> , 2016, 313, 213-222.	4.0	39
115	Bi ₂ O ₃ nanoparticles encapsulated in surface mounted metal-organic framework thin films. <i>Nanoscale</i> , 2016, 8, 6468-6472.	2.8	30
116	Mechanical Milling Assisted Synthesis and Electrochemical Performance of High Capacity LiFeBO ₃ for Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2166-2172.	4.0	18
117	Performance study of magnesium-sulfur battery using a graphene based sulfur composite cathode electrode and a non-nucleophilic Mg electrolyte. <i>Nanoscale</i> , 2016, 8, 3296-3306.	2.8	247
118	Orientation dependent fracture behavior of nanotwinned copper. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	21
119	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
120	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
121	Fatigue Behavior of Ultrafine-Grained Medium Carbon Steel with Different Carbide Morphologies Processed by High Pressure Torsion. <i>Metals</i> , 2015, 5, 891-909.	1.0	12
122	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
123	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
124	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
125	Structural study of growth, orientation and defects characteristics in the functional microelectromechanical system material aluminium nitride. <i>Journal of Applied Physics</i> , 2015, 117, 014301.	1.1	10
126	Chemical Vapor Synthesis of FeO-x/BaTiO ₃ Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1724-1730.	1.9	0

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127	Nanoporous-gold-based composites: toward tensile ductility. <i>NPG Asia Materials</i> , 2015, 7, e187-e187.	3.8	57
128	Light emission, light detection and strain sensing with nanocrystalline graphene. <i>Nanotechnology</i> , 2015, 26, 325202.	1.3	20
129	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
130	Sorting of Double-Walled Carbon Nanotubes According to Their Outer Wall Electronic Type via a Gel Permeation Method. <i>ACS Nano</i> , 2015, 9, 3849-3857.	7.3	19
131	AuRu/AC as an effective catalyst for hydrogenation reactions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28171-28176.	1.3	20
132	Controlled Solvothermal Routes to Hierarchical 3D Superparticles of Nanoscopic CdS. <i>Chemistry of Materials</i> , 2015, 27, 3666-3682.	3.2	22
133	Nanotwinned silver nanowires: Structure and mechanical properties. <i>Acta Materialia</i> , 2015, 92, 299-308.	3.8	36
134	Potassium polytitanate gas-sensor study by impedance spectroscopy. <i>Analytica Chimica Acta</i> , 2015, 897, 81-86.	2.6	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. <i>Small</i> , 2015, 11, 335-340.	5.2	20
137	Size-Selective Separation and Purification of Water-Soluble Organically Capped Brightly Photoluminescent Silicon Nanocrystals. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 301-306.	1.2	10
138	Self-organization of mesoscopic silver wires by electrochemical deposition. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1285-1290.	1.5	3
139	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
140	Growth of Nanolaminates of Thermoelectric Bi ₂ Te ₃ /Sb ₂ Te ₃ by Atomic Layer Deposition. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, P95-P100.	0.9	12
141	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
142	Exchange bias in UO ₂ /Fe ₃ O ₄ thin films above the Néel temperature of UO ₂ . <i>Applied Physics Letters</i> , 2014, 105, .	1.5	10
143	Plasticity mechanisms in ultrafine grained freestanding aluminum thin films revealed by in-situ transmission electron microscopy nanomechanical testing. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	32
144	Synthesis and characterization of PbTe thin films by atomic layer deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1329-1333.	0.8	6

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145	Reversible In-Situ TEM Electrochemical studies of Fluoride Ion Battery. <i>Microscopy and Microanalysis</i> , 2014, 20, 1620-1621.	0.2	3
146	Dynamic Control Over Electronic Transport in 3D Bulk Nanographene via Interfacial Charging. <i>Advanced Functional Materials</i> , 2014, 24, 3494-3500.	7.8	8
147	Thorium/uranium mixed oxide nanocrystals: Synthesis, structural characterization and magnetic properties. <i>Nano Research</i> , 2014, 7, 119-131.	5.8	46
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