Thomas Gemming

List of Publications by Year
in descending order

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350 papers	11,894 citations	28274 55 h-index	42399 92 g-index
352 all docs	352 docs citations	352 times ranked	15493 citing authors

#	Article	IF	Citations
1	Applications of 2D MXenes in energy conversion and storage systems. Chemical Society Reviews, 2019, 48, 72-133.	38.1	1,354
2	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. Advanced Energy Materials, 2018, 8, 1702093.	19.5	385
3	Aromatic porous-honeycomb electrodes for a sodium-organic energy storage device. Nature Communications, 2013, 4, 1485.	12.8	327
4	Direct Imaging of Rotational Stacking Faults in Few Layer Graphene. Nano Letters, 2009, 9, 102-106.	9.1	225
5	Structural transformations in graphene studied with high spatial and temporal resolution. Nature Nanotechnology, 2009, 4, 500-504.	31.5	203
6	Evolution of magnetic domain structures and coercivity in high-performance SmCo 2:17-type permanent magnets. Acta Materialia, 2006, 54, 997-1008.	7.9	200
7	The Role of Interfacial Oxygen Atoms in the Enhanced Mechanical Properties of Carbonâ€Nanotubeâ€Reinforced Metal Matrix Nanocomposites. Small, 2008, 4, 1936-1940.	10.0	177
8	Microstructure and thermal behavior of two-phase amorphous Niâ€“Nbâ€“Y alloy. Scripta Materialia, 2005, 53, 271-274.	5.2	152
9	Hierarchically Designed SiOx/SiOy Bilayer Nanomembranes as Stable Anodes for Lithium Ion Batteries. Advanced Materials, 2014, 26, 4527-4532.	21.0	141
10	Triple yielding and deformation mechanisms in metastable Cu47.5Zr47.5Al5 composites. Acta Materialia, 2012, 60, 6000-6012.	7.9	133
11	Iron filled single-wall carbon nanotubes â€“ A novel ferromagnetic medium. Chemical Physics Letters, 2006, 421, 129-133.	2.6	130
12	Extraction of EELS white-line intensities of manganese compounds: Methods, accuracy, and valence sensitivity. Ultramicroscopy, 2006, 106, 284-291.	1.9	124
13	Twinned growth behaviour of two-dimensional materials. Nature Communications, 2016, 7, 13911.	12.8	123
14	On the Graphitization Nature of Oxides for the Formation of Carbon Nanostructures. Chemistry of Materials, 2007, 19, 4105-4107.	6.7	121
15	Microstructure and mechanical properties of a heat-treatable Al-3.5Cu-1.5Mg-1Si alloy produced by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 562-570.	5.6	121
16	Novel Catalysts, Room Temperature, and the Importance of Oxygen for the Synthesis of Single-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 1209-1215.	9.1	120
17	Tailoring N-Doped Single and Double Wall Carbon Nanotubes from a Nondiluted Carbon/Nitrogen Feedstock. Journal of Physical Chemistry C, 2007, 111, 2879-2884.	3.1	119
18	Electron-beam induced synthesis of nanostructures: a review. Nanoscale, 2016, 8, 11340-11362.	5.6	116

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19	Grain refinement assisted strengthening of carbon nanotube reinforced copper matrix nanocomposites. Applied Physics Letters, 2008, 92, .	3.3	112
20	Dispersion and diameter separation of multi-wall carbon nanotubes in aqueous solutions. Journal of Colloid and Interface Science, 2010, 345, 138-142.	9.4	111
21	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO_x by Chemical Vapor Deposition. ACS Nano, 2017, 11, 1946-1956.	14.6	108
22	Toward Highly Sensitive and Energy Efficient Ammonia Gas Detection with Modified Single-Walled Carbon Nanotubes at Room Temperature. ACS Sensors, 2018, 3, 79-86.	7.8	106
23	Growth and characterization of filled carbon nanotubes with ferromagnetic properties. Carbon, 2006, 44, 2316-2322.	10.3	100
24	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. Advanced Materials, 2017, 29, 1605254.	21.0	98
25	Thermal Decomposition of Ferrocene as a Method for Production of Single-Walled Carbon Nanotubes without Additional Carbon Sources. Journal of Physical Chemistry B, 2006, 110, 20973-20977.	2.6	96
26	Ferromagnetic filled carbon nanotubes and nanoparticles: synthesis and lipid-mediated delivery into human tumor cells. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 276-278.	2.3	92
27	Enhanced magnetism in Fe-filled carbon nanotubes produced by pyrolysis of ferrocene. Journal of Applied Physics, 2005, 98, 074315.	2.5	92
28	Oxide-Driven Carbon Nanotube Growth in Supported Catalyst CVD. Journal of the American Chemical Society, 2007, 129, 15772-15773.	13.7	91
29	Graphene-Like ZnO: A Mini Review. Crystals, 2016, 6, 100.	2.2	86
30	Incorporation of sulfur, chlorine, and carbon into electroplated Cu thin films. Microelectronic Engineering, 2007, 84, 54-59.	2.4	84
31	Microstructure and hydrogen storage properties of melt-spun Mgâ€“Cuâ€“Niâ€“Y alloys. International Journal of Hydrogen Energy, 2011, 36, 1592-1600.	7.1	82
32	Self-Supporting Hierarchical Porous PtAg Alloy Nanotubular Aerogels as Highly Active and Durable Electrocatalysts. Chemistry of Materials, 2016, 28, 6477-6483.	6.7	81
33	Growth of platinum on TiO2- and SrO-terminated SrTiO3(100). Surface Science, 2000, 448, 279-289.	1.9	78
34	Production of Porous Î²-Type Tiâ€“40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. Materials, 2013, 6, 5700-5712.	2.9	77
35	Novel Approach for Alternating Current (AC)â€Driven Organic Lightâ€Emitting Devices. Advanced Functional Materials, 2012, 22, 210-217.	14.9	76
36	Bulk synthesis of carbon-filled silicon carbide nanotubes with a narrow diameter distribution. Journal of Applied Physics, 2005, 97, 056102.	2.5	74

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37	Elastic softening of Î²-type Tiâ€“Nb alloys by indium (In) additions. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 39, 162-174.	3.1	73
38	Direct Magnetic Patterning due to the Generation of Ferromagnetism by Selective Ion Irradiation of Paramagnetic FeAl Alloys. Small, 2009, 5, 229-234.	10.0	71
39	Anatase Nanotubes as an Electrode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 8714-8720.	3.1	70
40	CVD growth of 1D and 2D sp2 carbon nanomaterials. Journal of Materials Science, 2016, 51, 640-667.	3.7	70
41	High quality double wall carbon nanotubes with a defined diameter distribution by chemical vapor deposition from alcohol. Carbon, 2006, 44, 3177-3182.	10.3	66
42	Catalyst-free synthesis of onion-like carbon nanoparticles. New Carbon Materials, 2010, 25, 1-8.	6.1	66
43	Flash Joule heating for ductilization of metallic glasses. Nature Communications, 2015, 6, 7932.	12.8	66
44	Iterative structure retrieval techniques in HREM: a comparative study and a modular program package. Journal of Microscopy, 1998, 190, 109-130.	1.8	64
45	Tailoring of magnetism in Pt/Co/Pt ultrathin films by ion irradiation. Physical Review B, 2012, 85, .	3.2	64
46	Quantitative Atomic-Scale Analysis of Interface Structures: Transmission Electron Microscopy and Local Density Functional Theory. Physical Review Letters, 2001, 86, 5066-5069.	7.8	63
47	Purification-induced sidewall functionalization of magnetically pure single-walled carbon nanotubes. Nanotechnology, 2007, 18, 375601.	2.6	63
48	ZrTiO4 crystallisation in nanosized liquidâ€“liquid phase-separation droplets in glassâ€”a quantitative XANES study. CrystEngComm, 2011, 13, 2550.	2.6	61
49	Microchemistry and magnetization reversal mechanism in melt-spun 2:17-type Sm-Co magnets. Applied Physics Letters, 2003, 83, 2208-2210.	3.3	60
50	Microstructure, microchemistry, and magnetic properties of melt-spun Sm(Co,Fe,Cu,Zr)z magnets. Journal of Applied Physics, 2003, 93, 7975-7977.	2.5	60
51	Design of ductile bulk metallic glasses by adding â€œsoftâ€•atoms. Applied Physics Letters, 2012, 100, .	3.3	60
52	Catalyst Volume to Surface Area Constraints for Nucleating Carbon Nanotubes. Journal of Physical Chemistry B, 2007, 111, 8234-8241.	2.6	59
53	Oxidation as A Means to Remove Surface Contaminants on Cu Foil Prior to Graphene Growth by Chemical Vapor Deposition. Journal of Physical Chemistry C, 2015, 119, 13363-13368.	3.1	57
54	Influence of the Catalyst Hydrogen Pretreatment on the Growth of Vertically Aligned Nitrogen-Doped Carbon Nanotubes. Chemistry of Materials, 2007, 19, 6131-6137.	6.7	56

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55	Stable Dispersion of Iodide-Capped PbSe Quantum Dots for High-Performance Low-Temperature Processed Electronics and Optoelectronics. Chemistry of Materials, 2015, 27, 4328-4337.	6.7	56
56	A size dependent evaluation of the cytotoxicity and uptake of nanographene oxide. Journal of Materials Chemistry B, 2015, 3, 2522-2529.	5.8	56
57	Aspects of static and dynamic magnetic anisotropy inNi81Fe19â˜NiOfilms. Physical Review B, 2007, 75, .	3.2	55
58	Magnetic anisotropy and domain patterning of amorphous films by He-ion irradiation. Applied Physics Letters, 2005, 86, 162502.	3.3	53
59	Chemiresistive biosensors based on carbon nanotubes for label-free detection of DNA sequences derived from avian influenza virus H5N1. Sensors and Actuators B: Chemical, 2017, 249, 691-699.	7.8	52
60	Cu@TiO₂ Janus microswimmers with a versatile motion mechanism. Soft Matter, 2018, 14, 6969-6973.	2.7	52
61	Compositional complexity dependence of dislocation density and mechanical properties in high entropy alloy systems. Progress in Natural Science: Materials International, 2020, 30, 545-551.	4.4	52
62	Progress and challenges in using sustainable carbon anodes in rechargeable metal-ion batteries. Progress in Energy and Combustion Science, 2021, 87, 100929.	31.2	52
63	Electron-Driven In Situ Transmission Electron Microscopy of 2D Transition Metal Dichalcogenides and Their 2D Heterostructures. ACS Nano, 2019, 13, 978-995.	14.6	51
64	Isotope-Engineered Single-Wall Carbon Nanotubes; A Key Material for Magnetic Studies. Journal of Physical Chemistry C, 2007, 111, 4094-4098.	3.1	50
65	Single-wall-carbon-nanotube/single-carbon-chain molecular junctions. Physical Review B, 2010, 81, .	3.2	49
66	Temporal Evolution of Diffusion Barriers Surrounding ZrTiO₄ Nuclei in Lithia Aluminosilicate Glass-Ceramics. Crystal Growth and Design, 2012, 12, 1556-1563.	3.0	48
67	Microstructures and properties evolution of spray-deposited Al-Zn-Mg-Cu-Zr alloys with scandium addition. Journal of Alloys and Compounds, 2017, 691, 482-488.	5.5	48
68	Silver filled single-wall carbon nanotubesâ€"synthesis, structural and electronic properties. Nanotechnology, 2006, 17, 2415-2419.	2.6	47
69	Nanoengineered Catalyst Particles as a Key for Tailor-Made Carbon Nanotubes. Chemistry of Materials, 2007, 19, 5006-5009.	6.7	47
70	Control of the single-wall carbon nanotube mean diameter in sulphur promoted aerosol-assisted chemical vapour deposition. Carbon, 2007, 45, 55-61.	10.3	45
71	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. ACS Sensors, 2021, 6, 3841-3881.	7.8	45
72	Structure and Chemistry of Symmetrical Tilt Grain Boundaries in Î±â€Al₂O₃: I, Bicrystals with â€œCleanâ€•Interface. Journal of the American Ceramic Society, 2003, 86, 581-89.	3.8	44

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73	Single Cr atom catalytic growth of graphene. Nano Research, 2018, 11, 2405-2411.	10.4	41
74	Blood platelet enrichment in mass-producible surface acoustic wave (SAW) driven microfluidic chips. Lab on A Chip, 2019, 19, 4043-4051.	6.0	41
75	Perpendicular magnetization of long iron carbide nanowires inside carbon nanotubes due to magnetocrystalline anisotropy. Journal of Applied Physics, 2009, 106, .	2.5	40
76	Sexithiophene Encapsulated in a Singleâ€Walled Carbon Nanotube: An In Situ Raman Spectroelectrochemical Study of a Peapod Structure. Chemistry - A European Journal, 2010, 16, 11753-11759.	3.3	39
77	On the diffusion-controlled growth of multiwalled carbon nanotubes. Journal of Applied Physics, 2005, 97, 114301.	2.5	38
78	Filling of carbon nanotubes for bioâ€applications. Physica Status Solidi (B): Basic Research, 2007, 244, 4315-4318.	1.5	38
79	One-Dimensional Confined Motion of Single Metal Atoms inside Double-Walled Carbon Nanotubes. Physical Review Letters, 2009, 102, 195504.	7.8	38
80	Spinodal decomposition of Niâ€“Nbâ€“Y metallic glasses. Acta Materialia, 2009, 57, 903-908.	7.9	38
81	Superparamagnetic FeCo and FeNi Nanocomposites Dispersed in Submicrometer-Sized C Spheres. Journal of Physical Chemistry C, 2012, 116, 22509-22517.	3.1	37
82	Tailoring carbon nanostructures via temperature and laser irradiation. Chemical Physics Letters, 2005, 407, 254-259.	2.6	36
83	Determination of manganese valency in La1â^'xSrxMnO3 using ELNES in the (S)TEM. Micron, 2007, 38, 224-230.	2.2	36
84	Î²-type Ti-based bulk metallic glass composites with tailored structural metastability. Journal of Alloys and Compounds, 2017, 708, 972-981.	5.5	36
85	New Frontiers in Electron Beamâ€“Driven Chemistry in and around Graphene. Advanced Materials, 2019, 31, e1800715.	21.0	36
86	Stoichiometry dependence of superconductivity and microstructure in mechanically alloyed MgB2. Journal of Applied Physics, 2005, 97, 056105.	2.5	35
87	Catalyst size dependencies for carbon nanotube synthesis. Physica Status Solidi (B): Basic Research, 2007, 244, 3911-3915.	1.5	35
88	Confirming the Dual Role of Etchants during the Enrichment of Semiconducting Single Wall Carbon Nanotubes by Chemical Vapor Deposition. Chemistry of Materials, 2015, 27, 5964-5973.	6.7	35
89	Amorphous martensite in Î²-Ti alloys. Nature Communications, 2018, 9, 506.	12.8	35
90	Structural, optical, and electronic properties of vanadium oxide nanotubes. Physical Review B, 2005, 72, .	3.2	34

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91	On the$L1_0$Ordering Kinetics in Fe-Pt Nanoparticles. IEEE Transactions on Magnetics, 2006, 42, 3048-3050.	2.1	34
92	Polymeric Frameworks as Organic Semiconductors with Controlled Electronic Properties. Journal of Physical Chemistry Letters, 2013, 4, 2977-2981.	4.6	34
93	Atomic structure and formation of CuZrAl bulk metallic glasses and composites. Acta Materialia, 2015, 100, 369-376.	7.9	34
94	Structural and magnetotransport properties of YBa2Cu3O7âˆ'Îˆâ•Y2O3 quasimultilayers. Journal of Applied Physics, 2005, 98, 123906.	2.5	33
95	Phase separation in Niâ€“Nbâ€“Y metallic glasses. Journal of Alloys and Compounds, 2010, 495, 299-304.	5.5	33
96	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. RSC Advances, 2015, 5, 60884-60891.	3.6	32
97	Highâ€performance electronics and optoelectronics of monolayer tungsten diselenide full film from preâ€seeding strategy. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1455-1469.	17.3	32
98	PrismaticÎ£3(101Â¯0)twin boundary inÎ±âˆ'Al2O3investigated by density functional theory and transmission electron microscopy. Physical Review B, 2002, 66, .	3.2	31
99	Strontium release from Sr2+-loaded bone cements and dispersion in healthy and osteoporotic rat bone. Journal of Controlled Release, 2017, 262, 159-169.	9.9	31
100	Effect of short-term tempering on microstructure and mechanical properties of high-strength FeCrMoVC. Acta Materialia, 2012, 60, 4468-4476.	7.9	30
101	Core-hole effect in the ELNES of Î±-Al2O3: experiment and theory. Ultramicroscopy, 2001, 86, 339-342.	1.9	29
102	Superior mechanical properties of FeCrMoVC. Applied Physics Letters, 2007, 90, 261901.	3.3	29
103	Selective laser melting of ultra-high-strength TRIP steel: processing, microstructure, and properties. Journal of Materials Science, 2017, 52, 4944-4956.	3.7	29
104	Phase separation in amorphous Niâ€“Nbâ€“Y alloys. Scripta Materialia, 2007, 57, 29-32.	5.2	28
105	High-strength Al₈₇Ni₈La₅ bulk alloy produced by spark plasma sintering of gas atomized powders. Journal of Materials Research, 2009, 24, 2909-2916.	2.6	28
106	Carbon Nanostructures as a Multi-Functional Platform for Sensing Applications. Chemosensors, 2018, 6, 60.	3.6	28
107	One-step catalyst-free generation of carbon nanospheres via laser-induced pyrolysis of anthracene. Journal of Solid State Chemistry, 2008, 181, 2796-2803.	2.9	27
108	Anisotropic mechanical behavior of ultrafine eutectic TiFe cast under non-equilibrium conditions. Intermetallics, 2011, 19, 327-335.	3.9	27

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109	In Situ Fabrication of Freestanding Singleâ€Atomâ€Thick 2D Metal/Metallene and 2D Metal/ Metallene Oxide Membranes: Recent Developments. Advanced Science, 2021, 8, e2100619.	11.2	27
110	On the effects of solution and reaction parameters for the aerosol-assisted CVD growth of long carbon nanotubes. Applied Physics A: Materials Science and Processing, 2006, 82, 719-725.	2.3	26
111	Facilitating the CVD synthesis of seamless double-walled carbon nanotubes. Nanotechnology, 2007, 18, 275610.	2.6	26
112	CVD growth of singleâ€walled Bâ€doped carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 1935-1938.	1.5	26
113	Highly biocompatible superparamagnetic Ni nanoparticles dispersed in submicron-sized C spheres. Carbon, 2013, 63, 358-366.	10.3	26
114	Porous graphitic materials obtained from carbonization of organic xerogels doped with transition metal salts. Bulletin of Materials Science, 2014, 37, 141-150.	1.7	26
115	Silicon monophosphide as a possible lithium battery anode material. Journal of Materials Chemistry A, 2018, 6, 19974-19978.	10.3	26
116	A comparison study of dislocation density, recrystallization and grain growth among nickel, FeNiCo ternary alloy and FeNiCoCrMn high entropy alloy. Journal of Alloys and Compounds, 2019, 790, 266-273.	5.5	25
117	Improved kinetic behaviour of Mg(NH2)2-2LiH doped with nanostructured K-modified-LixTiyOz for hydrogen storage. Scientific Reports, 2020, 10, 8.	3.3	25
118	Boron-Doped Single-Walled Carbon Nanotubes with Enhanced Thermoelectric Power Factor for Flexible Thermoelectric Devices. ACS Applied Energy Materials, 2020, 3, 2556-2564.	5.1	25
119	Eutectic limit for the growth of carbon nanotubes from a thin iron film by chemical vapor deposition of cyclohexane. Chemical Physics Letters, 2006, 425, 301-305.	2.6	24
120	The statistics of the thermal motion of the atoms during imaging process in transmission electron microscopy and related techniques. Ultramicroscopy, 2009, 109, 139-146.	1.9	24
121	In situobservations of self-repairing single-walled carbon nanotubes. Physical Review B, 2010, 81, .	3.2	24
122	Controlled surface modification of Tiâ€“40Nb implant alloy by electrochemically assisted inductively coupled RF plasma oxidation. Acta Biomaterialia, 2013, 9, 9201-9210.	8.3	24
123	Synthesis and characterization of amorphous Niâ€“Zr thin films. Thin Solid Films, 2014, 561, 48-52.	1.8	24
124	Structure and Giant Magnetoresistance Behaviour of Coâ€“Cu/Cu Multilayers Electrodeposited Under Various Deposition Conditions. Journal of Nanoscience and Nanotechnology, 2006, 6, 2000-2012.	0.9	23
125	Currentâ€Induced Mass Transport in Filled Multiwalled Carbon Nanotubes. Advanced Materials, 2011, 23, 541-544.	21.0	23
126	Micro-to-nano-scale deformation mechanism of a Ti-based dendritic-ultrafine eutectic alloy exhibiting large tensile ductility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 673-678.	5.6	23

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127	Active Assembly of Spheroidal Photocatalytic BiVO₄ Microswimmers. Langmuir, 2020, 36, 12473-12480.	3.5	23
128	Emerging Internet of Things driven carbon nanotubes-based devices. Nano Research, 2022, 15, 4613-4637.	10.4	23
129	Thermal transport through short-period SiGe nanodot superlattices. Journal of Applied Physics, 2014, 115, 044312.	2.5	22
130	Current Progress in the Chemical Vapor Deposition of Type-Selected Horizontally Aligned Single-Walled Carbon Nanotubes. ACS Nano, 2016, 10, 7248-7266.	14.6	22
131	Coral-Inspired Nanoengineering Design for Long-Cycle and Flexible Lithium-Ion Battery Anode. ACS Applied Materials & Interfaces, 2016, 8, 9185-9193.	8.0	22
132	In Situ Formation of Free-Standing Single-Atom-Thick Antiferromagnetic Chromium Membranes. Nano Letters, 2020, 20, 4354-4361.	9.1	22
133	Structure and Chemistry of Symmetrical Tilt Grain Boundaries in Î±â€Al₂O₃: II, Bicrystals with Y at the Interface. Journal of the American Ceramic Society, 2003, 86, 590-94.	3.8	21
134	Finite-size effects in highly ordered ultrathin FePt films. Physical Review B, 2010, 82, .	3.2	21
135	Influence of boron and oxygen on the microstructure and mechanical properties of high-strength Ti66Nb13Cu8Ni6.8Al6.2 alloys. Acta Materialia, 2013, 61, 3324-3334.	7.9	21
136	Negentropic stabilization of metastable Î²-Ti in bulk metallic glass composites. Scripta Materialia, 2016, 125, 19-23.	5.2	21
137	Size and time dependent internalization of label-free nano-graphene oxide in human macrophages. Nano Research, 2017, 10, 1980-1995.	10.4	21
138	Colloidal PbS nanoplatelets synthesized via cation exchange for electronic applications. Nanoscale, 2019, 11, 19370-19379.	5.6	21
139	Morphology and microstructure of the Ar+-ion sputtered (0001) Î±-Al2O3 surface. Applied Surface Science, 2000, 165, 159-165.	6.1	20
140	Novel catalysts for low temperature synthesis of single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3101-3105.	1.5	20
141	Surface modeling and chemical solution deposition of SrO(SrTiO3) Ruddlesdenâ€“Popper phases. Acta Materialia, 2010, 58, 4650-4659.	7.9	20
142	Polymer-derived nanoporous silicon carbide with monodisperse spherical pores. Journal of Materials Chemistry, 2012, 22, 24841.	6.7	20
143	Analytical Transmission Electron Microscopy. , 2014, , .		20
144	Facile graphitization of silicon nano-particles with ethanol based chemical vapor deposition. Nano Structures Nano Objects, 2018, 16, 38-44.	3.5	20

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145	Improving the oxidation resistance of RuAl thin films with Al2O3 or SiO2 cover layers. Journal of Alloys and Compounds, 2019, 776, 819-825.	5.5	20
146	Quantitative diffractometry at 0.1 nm resolution for testing lenses and recording media of a high-voltage atomic resolution microscope. Journal of Electron Microscopy, 1997, 46, 381-395.	0.9	19
147	Formation of novel nanostructures using carbon nanotubes as a frame. Synthetic Metals, 2005, 153, 345-348.	3.9	19
148	Phase separation in liquid and amorphous Niâ€“Nbâ€“Y alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 207-210.	5.6	19
149	Exposing Multiple Roles of H₂O in High-Temperature Enhanced Carbon Nanotube Synthesis. Chemistry of Materials, 2008, 20, 6586-6588.	6.7	19
150	Tungsten/molybdenum thin films for application as interdigital transducers on high temperature stable piezoelectric substrates La3Ga5SiO14 and Ca3TaGa3Si2O14. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 202, 31-38.	3.5	19
151	Highly photocatalytic TiO2interconnected porous powder fabricated by sponge-templated atomic layer deposition. Nanotechnology, 2015, 26, 364001.	2.6	19
152	The Influence of Phonon Scattering on HREM Images. Acta Crystallographica Section A: Foundations and Advances, 1998, 54, 83-90.	0.3	18
153	Investigation of high power effects on Ti/Al and Ta-Si-N/Cu/Ta-Si-N electrodes for SAW devices. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 911-917.	3.0	18
154	Local stress engineering of magnetic anisotropy in soft magnetic thin films. Applied Physics Letters, 2009, 94, .	3.3	18
155	Mn Valency at La0.7Sr0.3MnO3/SrTiO3 (0 0 1) Thin Film Interfaces. Microscopy and Microanalysis, 2009, 15, 213-221.	0.4	18
156	Microstructure, electrical resistivity and stresses in sputter deposited W and Mo films and the influence of the interface on bilayer properties. Thin Solid Films, 2014, 571, 1-8.	1.8	18
157	In-Plane Thermal Conductivity of Radial and Planar Si/SiO_x Hybrid Nanomembrane Superlattices. ACS Nano, 2017, 11, 8215-8222.	14.6	18
158	Investigation of strontium transport and strontium quantification in cortical rat bone by time-of-flight secondary ion mass spectrometry. Journal of the Royal Society Interface, 2019, 16, 20180638.	3.4	18
159	Abâ€initioHRTEM simulations of ionic crystals: a case study of sapphire. Journal of Microscopy, 1998, 190, 89-98.	1.8	17
160	Revisiting the Cu47Ti33Zr11Ni8Si1 glass-forming alloy. Scripta Materialia, 2006, 54, 835-840.	5.2	17
161	Modifying CVD synthesised carbon nanotubes via the carbon feed rate. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2227-2230.	2.7	17
162	Epitaxial Fe₃Si films on GaAs(100) substrates by means of electron beam evaporation. Nanotechnology, 2009, 20, 235604.	2.6	17

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163	In situ observations of fullerene fusion and ejection in carbon nanotubes. Nanoscale, 2010, 2, 2077.	5.6	17
164	Synthesis of carbon-encapsulated iron nanoparticles by pyrolysis of iron citrate and poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	2.6	17
165	The effect of boron on microstructure and mechanical properties of high-strength cast FeCrVC. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 586, 267-275.	5.6	17
166	Tensile piezoresistivity and disruption of percolation in singlewall and multiwall carbon nanotube/polyurethane composites. Synthetic Metals, 2013, 185-186, 96-102.	3.9	17
167	Hierarchical porous zeolite ZSM-58 derived by desilication and desilication re-assembly. Microporous and Mesoporous Materials, 2014, 187, 114-124.	4.4	17
168	Glow discharge plasma as a surface preparation tool for microstructure investigations. Materials Characterization, 2014, 91, 76-88.	4.4	17
169	RuAl thin films on highâ€“temperature piezoelectric substrates. Materials Research Express, 2015, 2, 085001.	1.6	17
170	Highly sensitive photodetectors using ZnTe/ZnO core/shell nanowire field effect transistors with a tunable core/shell ratio. Journal of Materials Chemistry C, 2016, 4, 2040-2046.	5.5	17
171	New Insight on the Hydrogen Absorption Evolution of the Mgâ€“Feâ€“H System under Equilibrium Conditions. Metals, 2018, 8, 967.	2.3	17
172	Transmission electron microscopy investigation of Ti2Al precipitation in titanium aluminides during high-strain torsion. Journal of Alloys and Compounds, 2006, 417, 169-172.	5.5	16
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