

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	Novel Fe-0.3Cr-0.4Mo-1.5Mn-3Ni-0.6C tool steel with superior properties under quasi-static and dynamic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 829, 142156.	5.6	2
2	Emerging Internet of Things driven carbon nanotubes-based devices. <i>Nano Research</i> , 2022, 15, 4613-4637.	10.4	23
3	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene. <i>Nanotechnology</i> , 2022, 33, 185702.	2.6	14
4	Microswimming by oxidation of dibenzylamine. <i>Chemical Communications</i> , 2022, 58, 4052-4055.	4.1	10
5	Investigation of matrix independent calibration of oxygen in glow discharge optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1223-1228.	3.0	2
6	Long-term high-temperature behavior of Ti-Al based electrodes for surface acoustic wave devices. <i>Journal of Materials Research and Technology</i> , 2022, 19, 989-1002.	5.8	2
7	Beyond Janus Geometry: Characterization of Flow Fields around Nonspherical Photocatalytic Microswimmers. <i>Advanced Science</i> , 2022, 9, .	11.2	10
8	Oxide nanolayer formation on surface of modified blast furnace sludge particles during voltammetric cycling in alkaline media. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 365-372.	2.5	2
9	Microstructural study of phase separation in (GeS ₃) _{100-x} Ag _x and (GeS ₂) _{100-x} Ag _x chalcogenide glasses. <i>Materials Today: Proceedings</i> , 2021, 35, 530-533.	1.8	0
10	Tailoring the stoichiometry of C ₃ N ₄ nanosheets under electron beam irradiation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4747-4756.	2.8	6
11	T ₂ - and T ₁ relaxivities and magnetic hyperthermia of iron-oxide nanoparticles combined with paramagnetic Gd complexes. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	1.5	4
12	Study of TiAl thin films on piezoelectric CTGS substrates as an alternative metallization system for high-temperature SAW devices. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2383-2395.	5.8	5
13	Effect of Viscosity on Microswimmers: A Comparative Study. <i>ChemNanoMat</i> , 2021, 7, 1042-1050.	2.8	6
14	Improved corrosion behavior of a novel Fe ₈₅ Cr ₄ Mo ₈ V ₂ C ₁ tool steel processed by laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2021, 867, 158887.	5.5	3
15	In Situ Fabrication of Freestanding Single-Atom-Thick 2D Metal/Metallene and 2D Metal/ Metallene Oxide Membranes: Recent Developments. <i>Advanced Science</i> , 2021, 8, e2100619.	11.2	27
16	Effect of silver additions on the microstructure, mechanical properties and corrosion behavior of biodegradable Fe-30Mn-6Si. <i>Materials Today Communications</i> , 2021, 28, 102689.	1.9	9
17	Semiconductor-Based Microswimmers: Attention to Detail Matters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9651-9656.	4.6	5
18	Progress and challenges in using sustainable carbon anodes in rechargeable metal-ion batteries. <i>Progress in Energy and Combustion Science</i> , 2021, 87, 100929.	31.2	52

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19	Exploring the 3D structure and defects of a self-assembled gold mesocrystal by coherent X-ray diffraction imaging. <i>Nanoscale</i> , 2021, 13, 10425-10435.	5.6	8
20	Study of Active Janus Particles in the Presence of an Engineered Oil/Water Interface. <i>Langmuir</i> , 2021, 37, 204-210.	3.5	16
21	Polyol-Assisted Synthesis of Copper Particles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24887-24893.	3.1	5
22	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. <i>ACS Sensors</i> , 2021, 6, 3841-3881.	7.8	45
23	High-performance electronics and optoelectronics of monolayer tungsten diselenide full film from pre-seeding strategy. <i>Information Materials</i> , 2021, 3, 1455-1469.	17.3	32
24	Pt-RuAl bilayers as a model system for Pt wire bonding of high-temperature RuAl electrodes. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152107.	5.5	6
25	Improved kinetic behaviour of Mg(NH ₂) ₂ -2LiH doped with nanostructured K-modified-LixTiyOz for hydrogen storage. <i>Scientific Reports</i> , 2020, 10, 8.	3.3	25
26	Compositional complexity dependence of dislocation density and mechanical properties in high entropy alloy systems. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 545-551.	4.4	52
27	ROS-generation and cellular uptake behavior of amino-silica nanoparticles arisen from their uploading by both iron-oxides and hexamolybdenum clusters. <i>Materials Science and Engineering C</i> , 2020, 117, 111305.	7.3	12
28	Large Area Single-Crystal Graphene via Self-Organization at the Macroscale. <i>Advanced Materials</i> , 2020, 32, 2002755.	21.0	6
29	Active Assembly of Spheroidal Photocatalytic BiVO ₄ Microswimmers. <i>Langmuir</i> , 2020, 36, 12473-12480.	3.5	23
30	Stress and Microstructure Evolution in Mo Thin Films without or with Cover Layers during Thermal-Cycling. <i>Materials</i> , 2020, 13, 3926.	2.9	3
31	In Situ Formation of Free-Standing Single-Atom-Thick Antiferromagnetic Chromium Membranes. <i>Nano Letters</i> , 2020, 20, 4354-4361.	9.1	22
32	Phase Formation and High-Temperature Stability of Very Thin Co-Sputtered Ti-Al and Multilayered Ti/Al Films on Thermally Oxidized Si Substrates. <i>Materials</i> , 2020, 13, 2039.	2.9	7
33	Conversion of magnesium waste into a complex magnesium hydride system: Mg(NH ₂) ₂ ·2LiH. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1915-1923.	4.9	16
34	Boron-Doped Single-Walled Carbon Nanotubes with Enhanced Thermoelectric Power Factor for Flexible Thermoelectric Devices. <i>ACS Applied Energy Materials</i> , 2020, 3, 2556-2564.	5.1	25
35	Calcite incorporated in silica/collagen xerogels mediates calcium release and enhances osteoblast proliferation and differentiation. <i>Scientific Reports</i> , 2020, 10, 118.	3.3	11
36	In Situ N-Doped Graphene and Mo Nanoribbon Formation from Mo ₂ Ti ₂ C ₃ MXene Monolayers. <i>Small</i> , 2020, 16, e1907115.	10.0	14

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37	Contribution to understand the biomineralization of bones. Journal of Bone and Mineral Metabolism, 2020, 38, 456-468.	2.7	7
38	Fluorescent magnetic nanoparticles for modulating the level of intracellular Ca ²⁺ in motoneurons. Nanoscale, 2019, 11, 16103-16113.	5.6	13
39	Effects of radiative local heating on metal solidification during selective laser melting for additive manufacturing. Applied Surface Science, 2019, 496, 143594.	6.1	8
40	Mo-La ₂ O ₃ Multilayer Metallization Systems for High Temperature Surface Acoustic Wave Sensor Devices. Materials, 2019, 12, 2651.	2.9	10
41	Room temperature single-step synthesis of metal decorated boron-rich nanowires via laser ablation. Nano Convergence, 2019, 6, 14.	12.1	3
42	Electron-Driven <i>In Situ</i> Transmission Electron Microscopy of 2D Transition Metal Dichalcogenides and Their 2D Heterostructures. ACS Nano, 2019, 13, 978-995.	14.6	51
43	Colloidal PbS nanoplatelets synthesized <i>via</i> cation exchange for electronic applications. Nanoscale, 2019, 11, 19370-19379.	5.6	21
44	Synthesis of spherical iron-oxide nanoparticles of various sizes under different synthetic conditions. Chemical Papers, 2019, 73, 2715-2722.	2.2	1
45	Electroless-Deposited Platinum Antennas for Wireless Surface Acoustic Wave Sensors. Materials, 2019, 12, 1002.	2.9	2
46	Photosensitive Field-Effect Transistors Made from Semiconducting Carbon Nanotubes and Non-Covalently Attached Gold Nanoparticles. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900030.	1.8	14
47	Studies on the electrical resistivity of bilayer and multilayer thin films of sputtered tungsten and molybdenum. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 243, 96-107.	3.5	8
48	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
49	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
50	Rapid synthesis of pristine graphene inside a transmission electron microscope using gold as catalyst. Communications Chemistry, 2019, 2, .	4.5	6
51	New Frontiers in Electron Beam-Driven Chemistry in and around Graphene. Advanced Materials, 2019, 31, e1800715.	21.0	36
52	Blood platelet enrichment in mass-producible surface acoustic wave (SAW) driven microfluidic chips. Lab on A Chip, 2019, 19, 4043-4051.	6.0	41
53	Applications of 2D MXenes in energy conversion and storage systems. Chemical Society Reviews, 2019, 48, 72-133.	38.1	1,354
54	Improving the oxidation resistance of RuAl thin films with Al ₂ O ₃ or SiO ₂ cover layers. Journal of Alloys and Compounds, 2019, 776, 819-825.	5.5	20

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55	Facile graphitization of silicon nano-particles with ethanol based chemical vapor deposition. Nano Structures Nano Objects, 2018, 16, 38-44.	3.5	20
56	Nitrogen-containing porous carbon materials by twin polymerization. Colloid and Polymer Science, 2018, 296, 413-426.	2.1	6
57	Amorphous martensite in $\hat{1}^2$ -Ti alloys. Nature Communications, 2018, 9, 506.	12.8	35
58	Single Cr atom catalytic growth of graphene. Nano Research, 2018, 11, 2405-2411.	10.4	41
59	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
60	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. Advanced Energy Materials, 2018, 8, 1702093.	19.5	385
61	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
62	Silicon monophosphide as a possible lithium battery anode material. Journal of Materials Chemistry A, 2018, 6, 19974-19978.	10.3	26
63	New Insight on the Hydrogen Absorption Evolution of the Mg \hat{a} Fe \hat{a} H System under Equilibrium Conditions. Metals, 2018, 8, 967.	2.3	17
64	Pt-wire bonding optimization for electroplated Pt films on $\hat{1}^3$ -Al ₂ O ₃ for high temperature and harsh environment applications. Sensors and Actuators A: Physical, 2018, 284, 129-134.	4.1	11
65	Carbon Nanostructures as a Multi-Functional Platform for Sensing Applications. Chemosensors, 2018, 6, 60.	3.6	28
66	Cu@TiO ₂ Janus microswimmers with a versatile motion mechanism. Soft Matter, 2018, 14, 6969-6973.	2.7	52
67	In Situ Room Temperature Electron-Beam Driven Graphene Growth from Hydrocarbon Contamination in a Transmission Electron Microscope. Materials, 2018, 11, 896.	2.9	13
68	Silica-coated iron-oxide nanoparticles doped with Gd(III) complexes as potential double contrast agents for magnetic resonance imaging at different field strengths. Journal of Chemical Sciences, 2018, 130, 1.	1.5	7
69	Calcite and Hydroxyapatite Gelatin Composites as Bone Substitution Material Made by the Double Migration Technique. Crystal Growth and Design, 2017, 17, 738-745.	3.0	9
70	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. Advanced Materials, 2017, 29, 1605254.	21.0	98
71	Size and time dependent internalization of label-free nano-graphene oxide in human macrophages. Nano Research, 2017, 10, 1980-1995.	10.4	21
72	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

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73	Co(II) ethylene glycol carboxylates for Co ₃ O ₄ nanoparticle and nanocomposite formation. Journal of Materials Science, 2017, 52, 6697-6711.	3.7	13
74	Selective laser melting of ultra-high-strength TRIP steel: processing, microstructure, and properties. Journal of Materials Science, 2017, 52, 4944-4956.	3.7	29
75	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
76	Evidence for self-organized formation of logarithmic spirals during explosive crystallization of amorphous Ge:Mn layers. Journal of Applied Physics, 2017, 121, 184901.	2.5	1
77	Nano-inspired smart interfaces: fluidic interactivity and its impact on heat transfer. Scientific Reports, 2017, 7, 45323.	3.3	6
78	β -type Ti-based bulk metallic glass composites with tailored structural metastability. Journal of Alloys and Compounds, 2017, 708, 972-981.	5.5	36
79	Proximity effect between a superconductor and a partially spin-polarized ferromagnet: Case study of the $\text{Pb}/\text{Fe}/\text{Pb}$ junction. Physical Review B, 2017, 96, .	3.2	8
80	In-Plane Thermal Conductivity of Radial and Planar Si/SiO ₂ Hybrid Nanomembrane Superlattices. ACS Nano, 2017, 11, 8215-8222.	14.6	18
81	Strontium release from Sr ²⁺ -loaded bone cements and dispersion in healthy and osteoporotic rat bone. Journal of Controlled Release, 2017, 262, 159-169.	9.9	31
82	Metal nanoparticle-loaded porous carbon hollow spheres by twin polymerization. Journal of Materials Science, 2017, 52, 12653-12662.	3.7	10
83	In Situ Electron Driven Carbon Nanopillar-Fullerene Transformation through Cr Atom Mediation. Nano Letters, 2017, 17, 4725-4732.	9.1	13
84	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
85	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
86	Coevaporation and structuring of titanium-aluminum alloy thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	2.1	5
87	Capability Study of Ti, Cr, W, Ta and Pt as Seed Layers for Electrodeposited Platinum Films on γ -Al ₂ O ₃ for High Temperature and Harsh Environment Applications. Materials, 2017, 10, 54.	2.9	7
88	The Influence of the Composition of Ru _{100-x} Al _x (x = 50, 55, 60, 67) Thin Films on Their Thermal Stability. Materials, 2017, 10, 277.	2.9	12
89	Evaluation of Surface Cleaning Procedures for CTGS Substrates for SAW Technology with XPS. Materials, 2017, 10, 1373.	2.9	9
90	Estimate of the Degree of the Spin Polarization of a Ferromagnet from Data on the Superconductor/Ferromagnet Proximity Effect. JETP Letters, 2017, 106, 805-809.	1.4	1

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91	Functionalization of Ti-40Nb implant material with strontium by reactive sputtering. <i>Biomaterials Research</i> , 2017, 21, 18.	6.9	2
92	Signal enhancement in cantilever magnetometry based on a co-resonantly coupled sensor. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1033-1043.	2.8	8
93	Graphene-Like ZnO: A Mini Review. <i>Crystals</i> , 2016, 6, 100.	2.2	86
94	Tungsten as a Chemically-Stable Electrode Material on Ga-Containing Piezoelectric Substrates Langasite and Catangasite for High-Temperature SAW Devices. <i>Materials</i> , 2016, 9, 101.	2.9	16
95	Analysis of the thermal and temporal stability of Ta and Ti thin films onto SAW substrate materials (LiNbO ₃ and LiTaO ₃) using ARXPS. <i>Surface and Interface Analysis</i> , 2016, 48, 570-574.	1.8	4
96	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. <i>Scientific Reports</i> , 2016, 6, 22524.	3.3	2
97	Twinned growth behaviour of two-dimensional materials. <i>Nature Communications</i> , 2016, 7, 13911.	12.8	123
98	A study of the micro- and nanoscale deformation behavior of individual austenitic dendrites in a FeCrMoVC cast alloy using micro- and nanoindentation experiments. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	4
99	Electron-Driven Metal Oxide Effusion and Graphene Gasification at Room Temperature. <i>ACS Nano</i> , 2016, 10, 6323-6330.	14.6	15
100	Anodization of titanium in radio frequency oxygen discharge – Microstructure, kinetics & transport mechanism. <i>Solid State Ionics</i> , 2016, 290, 130-139.	2.7	14
101	TEM studies on the changes of the composition in LGS and CTGS substrates covered with a RuAl metallization and on the phase formation within the RuAl film after heat treatment at 600 and 800°C. <i>Journal of Alloys and Compounds</i> , 2016, 664, 510-517.	5.5	14
102	Electron-beam induced synthesis of nanostructures: a review. <i>Nanoscale</i> , 2016, 8, 11340-11362.	5.6	116
103	Ion milling-induced micrometer-sized heterogeneities and partial crystallization in a TiZrCuFeBe bulk metallic glass. <i>Intermetallics</i> , 2016, 73, 5-11.	3.9	9
104	Self-Supporting Hierarchical Porous PtAg Alloy Nanotubular Aerogels as Highly Active and Durable Electrocatalysts. <i>Chemistry of Materials</i> , 2016, 28, 6477-6483.	6.7	81
105	The influence of barrier layers (SiO ₂ , Al ₂ O ₃ , W) on the phase formation and stability of RuAl thin films on LGS and CTGS substrates for surface acoustic wave technology. <i>Journal of Alloys and Compounds</i> , 2016, 688, 228-240.	5.5	15
106	Negentropic stabilization of metastable β -Ti in bulk metallic glass composites. <i>Scripta Materialia</i> , 2016, 125, 19-23.	5.2	21
107	Transformation of epitaxial NiMnGa/InGaAs nanomembranes grown on GaAs substrates into freestanding microtubes. <i>RSC Advances</i> , 2016, 6, 72568-72574.	3.6	3
108	Current Progress in the Chemical Vapor Deposition of Type-Selected Horizontally Aligned Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2016, 10, 7248-7266.	14.6	22

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109	Compositional depth profiling of diamond-like carbon layers by glow discharge optical emission spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2207-2212.	3.0	9
110	Nano-inspired fluidic interactivity for boiling heat transfer: impact and criteria. <i>Scientific Reports</i> , 2016, 6, 34348.	3.3	14
111	Coral-Inspired Nanoengineering Design for Long-Cycle and Flexible Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9185-9193.	8.0	22
112	Highly sensitive photodetectors using ZnTe/ZnO core/shell nanowire field effect transistors with a tunable core/shell ratio. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2040-2046.	5.5	17
113	Wetting behaviour of Cu-Ga alloys on 304L steel. <i>Materials and Design</i> , 2016, 91, 11-18.	7.0	7
114	Structure and properties of sputter deposited crystalline and amorphous Cu-Ti films. <i>Thin Solid Films</i> , 2016, 598, 184-188.	1.8	10
115	CVD growth of 1D and 2D sp ² carbon nanomaterials. <i>Journal of Materials Science</i> , 2016, 51, 640-667.	3.7	70
116	Impact of heating mode in synthesis of monodisperse iron-oxide nanoparticles via oleate decomposition. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 299-305.	2.2	9
117	RuAl thin films on high-temperature piezoelectric substrates. <i>Materials Research Express</i> , 2015, 2, 085001.	1.6	17
118	Zirconium and Hafnium Twin Monomers for Mixed Oxides. <i>ChemPlusChem</i> , 2015, 80, 559-567.	2.8	15
119	Si(OCH ₂ FC) ₄ : Synthesis, Electrochemical Behavior, and Twin Polymerization. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3850-3860.	2.0	5
120	Surface Effects and Challenges for Application of Piezoelectric Langasite Substrates in Surface Acoustic Wave Devices Caused by High Temperature Annealing under High Vacuum. <i>Materials</i> , 2015, 8, 8868-8876.	2.9	6
121	Stable Dispersion of Iodide-Capped PbSe Quantum Dots for High-Performance Low-Temperature Processed Electronics and Optoelectronics. <i>Chemistry of Materials</i> , 2015, 27, 4328-4337.	6.7	56
122	Oxidation as A Means to Remove Surface Contaminants on Cu Foil Prior to Graphene Growth by Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13363-13368.	3.1	57
123	Tungsten/molybdenum thin films for application as interdigital transducers on high temperature stable piezoelectric substrates La ₃ Ga ₅ SiO ₁₄ and Ca ₃ TaGa ₃ Si ₂ O ₁₄ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 202, 31-38.	3.5	19
124	A size dependent evaluation of the cytotoxicity and uptake of nanographene oxide. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2522-2529.	5.8	56
125	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. <i>RSC Advances</i> , 2015, 5, 60884-60891.	3.6	32
126	Vertical Graphene Growth from Amorphous Carbon Films Using Oxidizing Gases. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17965-17970.	3.1	7

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127	Evaluation of a mobile vacuum transfer system for in vacuo XPS analysis using as-deposited Ti thin-films. <i>Vacuum</i> , 2015, 117, 81-84.	3.5	16
128	Nanostructure formation mechanism during in-situ consolidation of copper by room-temperature ball milling. <i>Materials & Design</i> , 2015, 65, 1083-1090.	5.1	7
129	Flash Joule heating for ductilization of metallic glasses. <i>Nature Communications</i> , 2015, 6, 7932.	12.8	66
130	Confirming the Dual Role of Etchants during the Enrichment of Semiconducting Single Wall Carbon Nanotubes by Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2015, 27, 5964-5973.	6.7	35
131	Highly photocatalytic TiO ₂ interconnected porous powder fabricated by sponge-templated atomic layer deposition. <i>Nanotechnology</i> , 2015, 26, 364001.	2.6	19
132	Atomic structure and formation of CuZrAl bulk metallic glasses and composites. <i>Acta Materialia</i> , 2015, 100, 369-376.	7.9	34
133	Thermal transport through short-period SiGe nanodot superlattices. <i>Journal of Applied Physics</i> , 2014, 115, 044312.	2.5	22
134	Thermosonic platinum wire bonding on platinum. , 2014, , .		3
135	Twin Polymerization: A Unique and Efficient Tool for Supporting Silver Nanoparticles on Highly Porous Carbon and Silica. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3148-3148.	2.0	0
136	Room Temperature in Situ Growth of B/BO _x Nanowires and BO _x Nanotubes. <i>Nano Letters</i> , 2014, 14, 799-805.	9.1	13
137	Porous graphitic materials obtained from carbonization of organic xerogels doped with transition metal salts. <i>Bulletin of Materials Science</i> , 2014, 37, 141-150.	1.7	26
138	Hierarchically Designed SiO _x /SiO _y Bilayer Nanomembranes as Stable Anodes for Lithium Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 4527-4532.	21.0	141
139	Analytical Transmission Electron Microscopy. , 2014, , .		20
140	Hierarchical porous zeolite ZSM-58 derived by desilication and desilication re-assembly. <i>Microporous and Mesoporous Materials</i> , 2014, 187, 114-124.	4.4	17
141	In situ studies of temperature-dependent behaviour and crystallisation of Ni _{36.5} Pd _{36.5} Pt ₂₇ metallic glass. <i>Journal of Alloys and Compounds</i> , 2014, 615, S208-S212.	5.5	13
142	Analysis of surface pre-treatment for SAW substrate material (LiNbO ₃) and deposited thin films of Ta/Ti using ARXPS. <i>Surface and Interface Analysis</i> , 2014, 46, 1033-1038.	1.8	9
143	Microstructure, electrical resistivity and stresses in sputter deposited W and Mo films and the influence of the interface on bilayer properties. <i>Thin Solid Films</i> , 2014, 571, 1-8.	1.8	18
144	In Situ Observation of Melting Behavior of ZnTe Nanowires. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15061-15067.	3.1	12

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145	Elastic softening of β^2 -type Ti–Nb alloys by indium (In) additions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 162-174.	3.1	73
146	Synthesis and characterization of amorphous Ni–Zr thin films. <i>Thin Solid Films</i> , 2014, 561, 48-52.	1.8	24
147	Glow discharge plasma as a surface preparation tool for microstructure investigations. <i>Materials Characterization</i> , 2014, 91, 76-88.	4.4	17
148	Twin Polymerization: A Unique and Efficient Tool for Supporting Silver Nanoparticles on Highly Porous Carbon and Silica. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3161-3163.	2.0	12
149	Let us Use the Analytical Possibilities. , 2014, , 177-226.		0
150	We Increase the Magnification. , 2014, , 137-162.		0
151	Magnetostriction Behavior of Pseudobulk CoFeBSiNb(Ga) Systems. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 797-800.	1.8	2
152	The study of structure of Fe–B–P based metallic glasses. <i>Applied Surface Science</i> , 2013, 269, 102-105.	6.1	4
153	Density measurement of thin layers by electron energy loss spectroscopy (EELS). <i>Micron</i> , 2013, 50, 57-61.	2.2	5
154	The effect of boron on microstructure and mechanical properties of high-strength cast FeCrVC. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 586, 267-275.	5.6	17
155	Highly biocompatible superparamagnetic Ni nanoparticles dispersed in submicron-sized C spheres. <i>Carbon</i> , 2013, 63, 358-366.	10.3	26
156	Size evaluation of nanostructured materials. <i>Materials Letters</i> , 2013, 108, 343-345.	2.6	11
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