

David Richard Graham Mitchell

List of Publications by Year in descending order

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162
papers

6,026
citations

66315

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69
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165
all docs

165
docs citations

165
times ranked

8613
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced thermoelectric performance and mechanical strength of n-type BiTeSe materials produced via a composite strategy. <i>Chemical Engineering Journal</i> , 2022, 428, 131205.	6.6	26
2	A scriptâ€based method for achieving distortionâ€free selected area electron diffraction. <i>Microscopy Research and Technique</i> , 2022, , .	1.2	2
3	Biochar-based fertiliser enhances nutrient uptake and transport in rice seedlings. <i>Science of the Total Environment</i> , 2022, 826, 154174.	3.9	13
4	In-situ observation of nucleation, growth and interaction of deformation-induced $\langle \mathbf{m} \rangle$ martensite in metastable Tiâ€10Vâ€2Feâ€3Al. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140237.	2.6	23
5	Tuning the electromechanical properties and polarization of Aluminium Nitride by ion beam-induced point defects. <i>Acta Materialia</i> , 2021, 203, 116495.	3.8	11
6	Advanced characterization of biomineralization at plaque layer and inside rice roots amended with iron- and silica-enhanced biochar. <i>Scientific Reports</i> , 2021, 11, 159.	1.6	7
7	Investigating the cadmium adsorption capacities of crop straw biochars produced using various feedstocks and pyrolysis temperatures. <i>Environmental Science and Pollution Research</i> , 2021, 28, 21516-21527.	2.7	6
8	Significant Enhancement of Thermoelectric Figure of Merit in BiSbTeâ€Based Composites by Incorporating Carbon Microfiber. <i>Advanced Functional Materials</i> , 2021, 31, 2008851.	7.8	57
9	Effect of strain on microstructural development during uniaxial compression of metastable beta Tiâ€10Vâ€2Feâ€3Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 804, 140720.	2.6	7
10	Oleylamine Aging of PtNi Nanoparticles Giving Enhanced Functionality for the Oxygen Reduction Reaction. <i>Nano Letters</i> , 2021, 21, 3989-3996.	4.5	37
11	Fertilizing behavior of extract of organomineral-activated biochar: low-dose foliar application for promoting lettuce growth. <i>Chemical and Biological Technologies in Agriculture</i> , 2021, 8, .	1.9	9
12	Giant Piezoelectricity of Deformed Aluminum Nitride Stabilized through Noble Gas Interstitials for Energy Efficient Resonators. <i>Advanced Electronic Materials</i> , 2021, 7, 2100358.	2.6	5
13	Formation of Pt-Based Alloy Nanoparticles Assisted by Molybdenum Hexacarbonyl. <i>Nanomaterials</i> , 2021, 11, 1825.	1.9	2
14	Biochar bound urea boosts plant growth and reduces nitrogen leaching. <i>Science of the Total Environment</i> , 2020, 701, 134424.	3.9	137
15	Mechanistic evaluation of biochar potential for plant growth promotion and alleviation of chromium-induced phytotoxicity in <i>Ficus elastica</i> . <i>Chemosphere</i> , 2020, 243, 125332.	4.2	27
16	Biochar-based fertilizer: Supercharging root membrane potential and biomass yield of rice. <i>Science of the Total Environment</i> , 2020, 713, 136431.	3.9	78
17	Oxidative and Frictional Behavior of a Binary Sodium Borateâ€Silicate Composite in High-Temperature Lubricant Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 2921-2933.	1.8	15
18	Topographical and compositional engineering of coreâ€shell Ni@Pt ORR electro-catalysts. <i>RSC Advances</i> , 2020, 10, 29268-29277.	1.7	11

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19	Ultra-High Thermoelectric Performance in Bulk BiSbTe/Amorphous Boron Composites with Nano-Defect Architectures. <i>Advanced Energy Materials</i> , 2020, 10, 2000757.	10.2	67
20	High-Index Core-Shell Ni-Pt Nanoparticles as Oxygen Reduction Electrocatalysts. <i>ACS Applied Nano Materials</i> , 2020, 3, 5718-5731.	2.4	17
21	Creating thin magnetic layers at the surface of Sb ₂ Te ₃ topological insulators using a low-energy chromium ion beam. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	6
22	Graphene inclusion induced ultralow thermal conductivity and improved figure of merit in p-type SnSe. <i>Nanoscale</i> , 2020, 12, 12760-12766.	2.8	16
23	Intrinsic Effect of Nanoparticles on the Mechanical Rupture of Double-Shell Colloidal Capsule via In Situ TEM Mechanical Testing and STEM Interfacial Analysis. <i>Small</i> , 2020, 16, e2001978.	5.2	7
24	Biochar increases soil organic carbon, avocado yields and economic return over 4 years of cultivation. <i>Science of the Total Environment</i> , 2020, 724, 138153.	3.9	46
25	The Influence of a Novel Inorganic-Polymer Lubricant on the Microstructure of Interstitial-Free Steel during Ferrite Rolling. <i>Metals</i> , 2020, 10, 178.	1.0	1
26	Enhancing the Thermoelectric Performance of Polycrystalline SnSe by Decoupling Electrical and Thermal Transport through Carbon Fiber Incorporation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12910-12918.	4.0	22
27	Thermoelectric performance of thermally aged nanostructured bulk materials—a case study of lead chalcogenides. <i>Materials Today Physics</i> , 2020, 13, 100190.	2.9	11
28	A Hybrid Electrochemical Energy Storage Device Using Sustainable Electrode Materials. <i>ChemistrySelect</i> , 2020, 5, 1597-1606.	0.7	27
29	Wheat straw vinegar: A more cost-effective solution than chemical fungicides for sustainable wheat plant protection. <i>Science of the Total Environment</i> , 2020, 725, 138359.	3.9	30
30	Unusual Competitive and Synergistic Effects of Graphite Nanoplates in Engine Oil on the Tribofilm Formation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901081.	1.9	23
31	Calcined chicken eggshell electrode for battery and supercapacitor applications. <i>RSC Advances</i> , 2019, 9, 26981-26995.	1.7	69
32	Phase Separation in Liquid Metal Nanoparticles. <i>Matter</i> , 2019, 1, 192-204.	5.0	110
33	Tunable solution-processable anodic exfoliated graphene. <i>Applied Materials Today</i> , 2019, 15, 290-296.	2.3	18
34	Ionic interdiffusion as interaction mechanism between Al and Si ₃ N ₄ . <i>Journal of the American Ceramic Society</i> , 2019, 102, 4835-4847.	1.9	6
35	The effect of β -phase condition on the tensile behaviour in a near- β Ti alloy produced by blended elemental powder metallurgy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 747, 232-243.	2.6	11
36	Evolution of Microstructure During the In Situ Heating of 42%Pt Cold-Rolled High Mn Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 562-572.	1.1	0

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37	Immobilization of heavy metals in contaminated soil after mining activity by using biochar and other industrial by-products: the significant role of minerals on the biochar surfaces. Environmental Technology (United Kingdom), 2019, 40, 3200-3215.	1.2	40
38	Nature of magnetism in thiol-capped gold nanoparticles investigated with Muon spin rotation. Applied Physics Letters, 2018, 112, .	1.5	15
39	Microstructural and associated chemical changes during the composting of a high temperature biochar: Mechanisms for nitrate, phosphate and other nutrient retention and release. Science of the Total Environment, 2018, 618, 1210-1223.	3.9	163
40	Mullite-glass and mullite-mullite interfaces: Analysis by molecular dynamics (MD) simulation and high-resolution TEM. Journal of the American Ceramic Society, 2018, 101, 428-439.	1.9	11
41	Bio-waste chicken eggshells to store energy. Dalton Transactions, 2018, 47, 16828-16834.	1.6	40
42	Silicon as a ubiquitous contaminant in graphene derivatives with significant impact on device performance. Nature Communications, 2018, 9, 5070.	5.8	42
43	Tetragonality of bcc Phases in a Transformation-Induced Plasticity Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5925-5929.	1.1	2
44	Ultra-high thermoelectric performance in graphene incorporated Cu ₂ Se: Role of mismatching phonon modes. Nano Energy, 2018, 53, 993-1002.	8.2	145
45	Solution-Grown Dendritic Pt-Based Ternary Nanostructures for Enhanced Oxygen Reduction Reaction Functionality. Nanomaterials, 2018, 8, 462.	1.9	13
46	Effect of oxidizer in the synthesis of NiO anchored nanostructure nickel molybdate for sodium-ion battery. Materials Today Energy, 2018, 10, 1-14.	2.5	23
47	New insights into the electrochemistry of magnesium molybdate hierarchical architectures for high performance sodium devices. Nanoscale, 2018, 10, 13277-13288.	2.8	74
48	Nanoscale analyses of the surface structure and composition of biochars extracted from field trials or after co-composting using advanced analytical electron microscopy. Geoderma, 2017, 294, 70-79.	2.3	84
49	Chemolithotrophic processes in the bacterial communities on the surface of mineral-enriched biochars. ISME Journal, 2017, 11, 1087-1101.	4.4	121
50	Rapid formation of self-organised Ag nanosheets with high efficiency and selectivity in CO ₂ electroreduction to CO. Sustainable Energy and Fuels, 2017, 1, 1023-1027.	2.5	49
51	Construction of 2D lateral pseudoheterostructures by strain engineering. 2D Materials, 2017, 4, 025102.	2.0	31
52	Multifunctional Bi-Layered Tribofilm Generated on Steel Contact Interfaces under High-Temperature Melt Lubrication. Journal of Physical Chemistry C, 2017, 121, 25092-25103.	1.5	24
53	Dispersion of Ni ²⁺ ions via acetate precursor in the preparation of NaNiPO ₄ nanoparticles: effect of acetate vs. nitrate on the capacitive energy storage properties. Dalton Transactions, 2017, 46, 13704-13713.	1.6	19
54	Tribochemistry of adaptive integrated interfaces at boundary lubricated contacts. Scientific Reports, 2017, 7, 9935.	1.6	18

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55	Pyrolysis of attapulgite clay blended with yak dung enhances pasture growth and soil health: Characterization and initial field trials. <i>Science of the Total Environment</i> , 2017, 607-608, 184-194.	3.9	36
56	Improvement in continuously variable crown work roll contour under CVC cyclical shifting mode. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 2723-2731.	1.5	20
57	Enhanced energy transfer in heterogeneous nanocrystals for near infrared upconversion photocurrent generation. <i>Nanoscale</i> , 2017, 9, 18661-18667.	2.8	14
58	Carbon- and crack-free growth of hexagonal boron nitride nanosheets and their uncommon stacking order. <i>Nanoscale</i> , 2016, 8, 15926-15933.	2.8	20
59	Seed mediated one-pot growth of versatile heterogeneous upconversion nanocrystals for multimodal bioimaging. , 2016, , .		1
60	Elemental distributions within multiphase quaternary Pb chalcogenide thermoelectric materials determined through three-dimensional atom probe tomography. <i>Nano Energy</i> , 2016, 26, 157-163.	8.2	15
61	Synthesis, structural and electrochemical properties of sodium nickel phosphate for energy storage devices. <i>Nanoscale</i> , 2016, 8, 11291-11305.	2.8	80
62	In situ characterisation of nanostructured multiphase thermoelectric materials at elevated temperatures. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32814-32819.	1.3	2
63	Chemical nature of alkaline polyphosphate boundary film at heated rubbing surfaces. <i>Scientific Reports</i> , 2016, 6, 26008.	1.6	29
64	Mineralâ€Biochar Composites: Molecular Structure and Porosity. <i>Environmental Science & Technology</i> , 2016, 50, 7706-7714.	4.6	148
65	Correlation among physical and electrochemical behaviour of nanostructured electrolytic manganese dioxide from leach liquor and synthetic for aqueous asymmetric capacitor. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4711-4720.	1.3	48
66	Synthesis-Dependent Surface Defects and Morphology of Hematite Nanoparticles and Their Effect on Cytotoxicity in Vitro. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5867-5876.	4.0	41
67	Controlled delivery of drugs adsorbed onto porous Fe ₃ O ₄ structures by application of AC/DC magnetic fields. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 243-250.	2.2	27
68	Higher Order Plasmonic Modes Excited in Ag Triangular Nanoplates by an Electron Beam. <i>Plasmonics</i> , 2016, 11, 1081-1086.	1.8	23
69	Development of an ellipse fitting method with which to analyse selected area electron diffraction patterns. <i>Ultramicroscopy</i> , 2016, 160, 140-145.	0.8	30
70	A Transmission Kikuchi Diffraction Study of a Coldâ€Rolled and Annealed Feâ€17Mnâ€2Siâ€3Alâ€1Niâ€0.06C wt% Steel. <i>Steel Research International</i> , 2015, 86, 1204-1214.	1.0	18
71	Lowering N ₂ O emissions from soils using eucalypt biochar: the importance of redox reactions. <i>Scientific Reports</i> , 2015, 5, 16773.	1.6	61
72	Origin of resistivity anomaly in p-type leads chalcogenide multiphase compounds. <i>AIP Advances</i> , 2015, 5, 053601.	0.6	9

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73	Analysis of interfacial structure and chemistry in FeV ₂ O ₄ -based heterostructures on (001)-oriented SrTiO ₃ . <i>Journal of Physics: Conference Series</i> , 2015, 644, 012003.	0.3	0
74	Probe current determination in analytical <i><sc>TEM/STEM</sc></i> and its application to the characterization of large area <i><sc>EDS</sc></i> detectors. <i>Microscopy Research and Technique</i> , 2015, 78, 886-893.	1.2	11
75	The Influence of Alkali Metal Polyphosphate on the Tribological Properties of Heavily Loaded Steel on Steel Contacts at Elevated Temperatures. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500032.	1.9	34
76	Heterogeneous Distribution of Sodium for High Thermoelectric Performance of p-type Multiphase Lead-Chalcogenides. <i>Advanced Energy Materials</i> , 2015, 5, 1501047.	10.2	63
77	Modulation of Photocatalytic Properties by Strain in 2D BiOBr Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27592-27596.	4.0	130
78	Contamination mitigation strategies for scanning transmission electron microscopy. <i>Micron</i> , 2015, 73, 36-46.	1.1	43
79	Feeding Biochar to Cows: An Innovative Solution for Improving Soil Fertility and Farm Productivity. <i>Pedosphere</i> , 2015, 25, 666-679.	2.1	74
80	A correlative approach to segmenting phases and ferrite morphologies in transformation-induced plasticity steel using electron back-scattering diffraction and energy dispersive X-ray spectroscopy. <i>Ultramicroscopy</i> , 2014, 147, 114-132.	0.8	29
81	Thermoelectric performance of tellurium-reduced quaternary p-type lead-chalcogenide composites. <i>Acta Materialia</i> , 2014, 80, 365-372.	3.8	28
82	Thermoelectric Performance of <i>n</i> -Type (PbTe) _{0.75} (PbS) _{0.15} (PbSe) _{0.1} Composites. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11476-11483.	4.0	69
83	Novel synthesis of superparamagnetic Ni-Co nanoparticles and their effect on superconductor properties of MgB ₂ . <i>Acta Materialia</i> , 2014, 70, 298-306.	3.8	19
84	Exposed Surfaces on Shape-Controlled Ceria Nanoparticles Revealed through ATEM and Water Gas Shift Reactivity. <i>ChemSusChem</i> , 2013, 6, 1898-1906.	3.6	134
85	Enhanced Photocatalytic Activity: Macroporous Electrospun Mats of Mesoporous Au/TiO ₂ Nanofibers. <i>ChemCatChem</i> , 2013, 5, 2646-2654.	1.8	28
86	Microstructural Characterization of P91 Steel in the Virgin, Service Exposed and Post-Service Re-Normalized Conditions. <i>Steel Research International</i> , 2013, 84, 1302-1308.	1.0	26
87	Hollow nitrogen-containing core/shell fibrous carbon nanomaterials as support to platinum nanocatalysts and their TEM tomography study. <i>Nanoscale Research Letters</i> , 2012, 7, 165.	3.1	26
88	RDFTools: A software tool for quantifying short-range ordering in amorphous materials. <i>Microscopy Research and Technique</i> , 2012, 75, 153-163.	1.2	43
89	Evolution of the structure and magneto-optical properties of ion beam synthesized iron nanoclusters. <i>Journal of Materials Science</i> , 2012, 47, 1127-1134.	1.7	11
90	Nucleation and Growth of Fe Nanoparticles in SiO ₂ : A TEM, XPS, and Fe L-Edge XANES Investigation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20978-20985.	1.5	122

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91	High conductivity transparent carbon nanotube films deposited from superacid. <i>Nanotechnology</i> , 2011, 22, 309502.	1.3	3
92	Phase Stability of ZrO_2 -Based Thermal Barrier Coatings: Mechanistic Insights. <i>Journal of the American Ceramic Society</i> , 2011, 94, s168.	1.9	119
93	Noble Metal-Modified Porous Titania Networks and their Application as Photocatalysts. <i>ChemCatChem</i> , 2011, 3, 1763-1771.	1.8	28
94	Fabrication of surface magnetic nanoclusters using low energy ion implantation and electron beam annealing. <i>Nanotechnology</i> , 2011, 22, 115602.	1.3	67
95	Lattice Guiding for Low Temperature Crystallization of Rhombohedral Perovskite-Structured Oxide Thin Films. <i>Crystal Growth and Design</i> , 2010, 10, 761-764.	1.4	7
96	MnO_2 cathode in an aqueous Li_2SO_4 solution for battery applications. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1-5.	1.5	6
97	Nanocolumnar Preferentially Oriented PSZT Thin Films Deposited on Thermally Grown Silicon Dioxide. <i>Nanoscale Research Letters</i> , 2009, 4, 29-33.	3.1	3
98	Microstructural investigation of nickel silicide thin films and the silicide-silicon interface using transmission electron microscopy. <i>Micron</i> , 2009, 40, 11-14.	1.1	7
99	Microstructural and spectroscopic investigations into the effect of CeO_2 additions on the performance of a MnO_2 aqueous rechargeable battery. <i>Electrochimica Acta</i> , 2009, 54, 3244-3249.	2.6	24
100	Titanate ceramics for immobilisation of uranium-rich radioactive wastes arising from ^{99}Mo production. <i>Journal of Nuclear Materials</i> , 2009, 384, 322-326.	1.3	50
101	Synthesis of Self-Assembled Island-Structured Complex Oxide Dielectric Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16610-16614.	1.5	5
102	Iron-Monosulfide Oxidation in Natural Sediments: Resolving Microbially Mediated S Transformations Using XANES, Electron Microscopy, and Selective Extractions. <i>Environmental Science & Technology</i> , 2009, 43, 3128-3134.	4.6	111
103	Electrochemical characterization of an aqueous lithium rechargeable battery: The effect of CeO_2 additions to the MnO_2 cathode. <i>Journal of Alloys and Compounds</i> , 2009, 479, 87-90.	2.8	43
104	Iron(III) accumulations in inland saline waterways, Hunter Valley, Australia: Mineralogy, micromorphology and pore-water geochemistry. <i>Applied Geochemistry</i> , 2009, 24, 1825-1834.	1.4	11
105	Microstructural and Compositional Analysis of Strontium-Doped Lead Zirconate Titanate Thin Films on Gold-Coated Silicon Substrates. <i>Microscopy and Microanalysis</i> , 2009, 15, 30-35.	0.2	7
106	Effect of multi-layered bottom electrodes on the orientation of strontium-doped lead zirconate titanate thin films. <i>Thin Solid Films</i> , 2008, 516, 8101-8105.	0.8	11
107	Hydrothermal crystallization of amorphous titania films deposited using low temperature atomic layer deposition. <i>Thin Solid Films</i> , 2008, 516, 8414-8423.	0.8	19
108	DiffTools: Electron diffraction software tools for DigitalMicrograph, etc. <i>Microscopy Research and Technique</i> , 2008, 71, 588-593.	1.2	212

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109	The influence of bismuth oxide doping on the rechargeability of aqueous cells using MnO ₂ cathode and LiOH electrolyte. <i>Electrochimica Acta</i> , 2008, 53, 6323-6327.	2.6	42
110	Incorporation of TiB ₂ additive into MnO ₂ cathode and its influence on rechargeability in an aqueous battery system. <i>Solid State Ionics</i> , 2008, 179, 355-361.	1.3	48
111	Circular Hough transform diffraction analysis: A software tool for automated measurement of selected area electron diffraction patterns within Digital Micrograph [®] . <i>Ultramicroscopy</i> , 2008, 108, 367-374.	0.8	58
112	Plasmon imaging: An efficient TEM-based method for locating noble metal particles dispersed on oxide catalysts at very low densities. <i>Micron</i> , 2008, 39, 344-347.	1.1	10
113	Investigation of surface crystallites on C54 titanium silicide thin films using transmission electron microscopy. <i>Semiconductor Science and Technology</i> , 2008, 23, 035021.	1.0	4
114	Schwertmannite transformation to goethite via the Fe(II) pathway: Reaction rates and implications for iron-sulfide formation. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4551-4564.	1.6	168
115	Gold Nanoparticle Incorporation into Porous Titania Networks Using an Agarose Gel Templating Technique for Photocatalytic Applications. <i>Chemistry of Materials</i> , 2008, 20, 3917-3926.	3.2	103
116	Manganese Dioxide Cathode in the Presence of TiS ₂ as Additive on an Aqueous Lithium Secondary Cell. <i>Journal of the Electrochemical Society</i> , 2007, 154, A109.	1.3	21
117	Reductive transformation of iron and sulfur in schwertmannite-rich accumulations associated with acidified coastal lowlands. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4456-4473.	1.6	156
118	Effective gel for gold nanoparticle formation, support and metal oxide templating. <i>Chemical Communications</i> , 2007, , 3060.	2.2	51
119	Characterization of C54 titanium silicide thin films by spectroscopy, microscopy and diffraction. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5213-5219.	1.3	22
120	Structural Evolution of Self-Assembling Nanohybrid Thin Films from Functionalized Urea Precursors. <i>Advanced Functional Materials</i> , 2007, 17, 3926-3932.	7.8	24
121	TEM investigation of MnO ₂ cathode containing TiS ₂ and its influence in aqueous lithium secondary battery. <i>Electrochimica Acta</i> , 2007, 52, 3294-3298.	2.6	17
122	Synthesis of mesoporous zirconium titanates using alkylcarboxylate surfactants and their transformation to dense ceramics. <i>Microporous and Mesoporous Materials</i> , 2007, 103, 123-133.	2.2	23
123	A study of lithium insertion into MnO ₂ containing TiS ₂ additive a battery material in aqueous LiOH solution. <i>Electrochimica Acta</i> , 2007, 52, 7007-7013.	2.6	32
124	Atomic layer deposition of TiO ₂ and Al ₂ O ₃ thin films and nanolaminates. <i>Smart Materials and Structures</i> , 2006, 15, S57-S64.	1.8	57
125	Modification of TiO ₂ for Enhanced Surface Properties: A Finite Ostwald Ripening by a Microwave Hydrothermal Process. <i>Langmuir</i> , 2006, 22, 2016-2027.	1.6	189
126	Determination of mean free path for energy loss and surface oxide film thickness using convergent beam electron diffraction and thickness mapping: a case study using Si and P91 steel. <i>Journal of Microscopy</i> , 2006, 224, 187-196.	0.8	33

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127	Transmission electron microscopy studies of HfO ₂ thin films grown by chloride-based atomic layer deposition. Applied Surface Science, 2006, 253, 606-617.	3.1	17
128	Advanced TEM specimen preparation methods for replication of P91 steel. Materials Characterization, 2006, 56, 49-58.	1.9	18
129	Previous heat treatment inducing different plasma nitriding behaviors in martensitic stainless steels. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1795-1801.	0.9	14
130	Characterisation of epitaxial TiO ₂ thin films grown on MgO(001) using atomic layer deposition. Journal of Crystal Growth, 2005, 285, 208-214.	0.7	12
131	Scripting-customised microscopy tools for Digital Micrograph [®] . Ultramicroscopy, 2005, 103, 319-332.	0.8	150
132	Sol-gel bonding of silicon wafers. Thin Solid Films, 2005, 488, 153-159.	0.8	13
133	Sol-gel bonding of silicon wafers. Thin Solid Films, 2005, 488, 160-166.	0.8	7
134	TEM and ellipsometry studies of nanolaminate oxide films prepared using atomic layer deposition. Applied Surface Science, 2005, 243, 265-277.	3.1	41
135	Atomic layer deposition of TiO ₂ / Al ₂ O ₃ films for optical applications. , 2005, 5870, 76.		18
136	Characterization of thin metal oxide films grown by atomic layer deposition. , 2004, , .		0
137	Atomic layer deposition (ALD) of TiO ₂ and Al ₂ O ₃ thin films on silicon. , 2004, , .		1
138	Temperature effect of nitrided stainless steel coatings deposited by reactive DC-magnetron sputtering. Thin Solid Films, 2004, 469-470, 167-172.	0.8	11
139	Influence of Si(100) surface pretreatment on the morphology of TiO ₂ films grown by atomic layer deposition. Thin Solid Films, 2003, 440, 109-116.	0.8	29
140	Characterisation of PI3 and RF plasma nitrided austenitic stainless steels using plan and cross-sectional TEM techniques. Surface and Coatings Technology, 2003, 165, 107-118.	2.2	36
141	Transmission electron microscopy studies of atomic layer deposition TiO ₂ films grown on silicon. Thin Solid Films, 2003, 441, 85-95.	0.8	94
142	Fabrication, characterization, and leach testing of hollandite, (Ba,Cs)(Al,Ti) ₂ Ti ₆ O ₁₆ . Journal of Materials Research, 2002, 17, 2578-2589.	1.2	56
143	Cross-sectional transmission electron microscopy of metallographic damage in hollandite nuclear wastefoms. Materials Characterization, 2002, 48, 359-362.	1.9	4
144	Nb-substitution and Cs ⁺ ion-exchange in the titanosilicate sitinakite. Microporous and Mesoporous Materials, 2002, 55, 1-13.	2.2	42

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145	Some applications of analytical TEM to the characterisation of high temperature equipment. <i>Micron</i> , 2001, 32, 831-840.	1.1	6
146	A quantitative X-ray diffraction and analytical electron microscopy study of service-exposed 2.25Cr-1Mo steels. <i>Materials Characterization</i> , 2001, 47, 17-26.	1.9	29
147	Microstructural evolution in seven 2.25Cr-1Mo superheater outlet headers resulting from service exposure. <i>Science and Technology of Welding and Joining</i> , 2001, 6, 168-176.	1.5	12
148	Low Temperature Bonding of Ceramics by Sol-Gel Processing. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 321-324.	1.1	14
149	Optimisation of post-weld heat treatment of a 1.25Cr-0.5Mo pressure vessel for high temperature hydrogen service. <i>International Journal of Pressure Vessels and Piping</i> , 1999, 76, 259-266.	1.2	11
150	Interaction of silica fume with calcium hydroxide solutions and hydrated cement pastes. <i>Cement and Concrete Research</i> , 1998, 28, 1571-1584.	4.6	104
151	Carburisation of heat-resistant steels. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 1998, 49, 231-236.	0.8	30
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