

Michael J Powell

List of Publications by Year in descending order

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28
papers

2,854
citations

394421

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h-index

501196

28
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28
all docs

28
docs citations

28
times ranked

5798
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface radio-mineralisation mediates chelate-free radiolabelling of iron oxide nanoparticles. <i>Chemical Science</i> , 2019, 10, 2592-2597.	7.4	15
2	Low-Cost One-Step Fabrication of Highly Conductive ZnO:Cl Transparent Thin Films with Tunable Photocatalytic Properties via Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1408-1417.	4.3	41
3	https://doi.org/10.1039/C9EE01998G VO ₂ /SiO ₂ nanocomposite smart window coatings with narrow phase transition hysteresis and transition gradient width. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109944.	6.2	40
4	Chemically Treated 3D Printed Polymer Scaffolds for Biomineral Formation. <i>ACS Omega</i> , 2018, 3, 4342-4351.	3.5	24
5	The Effect of Alkali Metal (Na, K) Doping on Thermochemical Properties of VO ₂ Films. <i>MRS Advances</i> , 2018, 3, 1863-1869.	0.9	5
6	Aluminium/gallium, indium/gallium, and aluminium/indium co-doped ZnO thin films deposited via aerosol assisted CVD. <i>Journal of Materials Chemistry C</i> , 2018, 6, 588-597.	5.5	72
7	Direct and continuous hydrothermal flow synthesis of thermochemical phase pure monoclinic VO ₂ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11731-11739.	5.5	15
8	Reflective Silver Thin Film Electrodes from Commercial Silver(I) Triflate via Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Nano Materials</i> , 2018, 1, 3724-3732.	5.0	6
9	Phosphorus doped SnO ₂ thin films for transparent conducting oxide applications: synthesis, optoelectronic properties and computational models. <i>Chemical Science</i> , 2018, 9, 7968-7980.	7.4	33
10	Photocatalytic and electrically conductive transparent Cl-doped ZnO thin films via aerosol-assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12682-12692.	10.3	34
11	Transparent conducting oxide thin films of Si-doped ZnO prepared by aerosol assisted CVD. <i>RSC Advances</i> , 2017, 7, 10806-10814.	3.6	36
12	Scaling aerosol assisted chemical vapour deposition: Exploring the relationship between growth rate and film properties. <i>Materials and Design</i> , 2017, 129, 116-124.	7.0	44
13	Optimized Atmospheric-Pressure Chemical Vapor Deposition Thermochemical VO ₂ Thin Films for Intelligent Window Applications. <i>ACS Omega</i> , 2017, 2, 1040-1046.	3.5	56
14	Qualitative XANES and XPS Analysis of Substrate Effects in VO ₂ Thin Films: A Route to Improving Chemical Vapor Deposition Synthetic Methods?. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20345-20352.	3.1	22
15	Aerosols: A Sustainable Route to Functional Materials. <i>Chemistry - A European Journal</i> , 2017, 23, 15543-15552.	3.3	32
16	Particle size, morphology and phase transitions in hydrothermally produced VO ₂ (D). <i>New Journal of Chemistry</i> , 2017, 41, 9216-9222.	2.8	26
17	Frontispiece: Aerosols: A Sustainable Route to Functional Materials. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	1
18	Probability Density Functions for Droplet Sizing in Aerosol Transport Modelling. <i>Computer Aided Chemical Engineering</i> , 2017, , 2245-2250.	0.5	3

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19	Al ³⁺ , Ga ³⁺ , and In ³⁺ -doped ZnO thin films via aerosol assisted CVD for use as transparent conducting oxides. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1346-1352.	1.8	43
20	Reactivity of vanadium oxytrichloride with β -diketones and diesters as precursors for vanadium nitride and carbide. <i>Materials and Design</i> , 2016, 108, 780-790.	7.0	15
21	[{VOCl ₂ (CH ₂ (COOEt) ₂)} ₄] as a molecular precursor for thermochromic monoclinic VO ₂ thin films and nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10453-10463.	5.5	6
22	Magnetic hyperthermia controlled drug release in the GI tract: solving the problem of detection. <i>Scientific Reports</i> , 2016, 6, 34271.	3.3	23
23	Scalable Production of Thermochromic Nb-Doped VO ₂ Nanomaterials Using Continuous Hydrothermal Flow Synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10104-10111.	0.9	14
24	Intelligent Multifunctional VO ₂ /SiO ₂ /TiO ₂ Coatings for Self-Cleaning, Energy-Saving Window Panels. <i>Chemistry of Materials</i> , 2016, 28, 1369-1376.	6.7	221
25	VO ₂ nano-sheet negative electrodes for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2016, 64, 56-60.	4.7	46
26	N-doped TiO ₂ visible light photocatalyst films via a sol-gel route using TMEDA as the nitrogen source. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 281, 27-34.	3.9	37
27	A fast and effective method for N-doping TiO ₂ by post treatment with liquid ammonia: visible light photocatalysis. <i>Thin Solid Films</i> , 2014, 562, 223-228.	1.8	20
28	Band alignment of rutile and anatase TiO ₂ . <i>Nature Materials</i> , 2013, 12, 798-801.	27.5	1,924