

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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28
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all docs

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docs citations

28
times ranked

5798
citing authors

#	ARTICLE	IF	CITATIONS
1	Band alignment of rutile and anatase TiO ₂ . <i>Nature Materials</i> , 2013, 12, 798-801.	27.5	1,924
2	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
3	Aluminium/gallium, indium/gallium, and aluminium/indium co-doped ZnO thin films deposited <i>via</i> aerosol assisted CVD. <i>Journal of Materials Chemistry C</i> , 2018, 6, 588-597.	5.5	72
4	Optimized Atmospheric-Pressure Chemical Vapor Deposition Thermochromic VO ₂ Thin Films for <i>Intelligent</i> Window Applications. <i>ACS Omega</i> , 2017, 2, 1040-1046.	3.5	56
5	VO ₂ nano-sheet negative electrodes for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2016, 64, 56-60.	4.7	46
6	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
7	Al ⁺ , Ga ⁺ , and In ⁺ -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
8	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
9	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
10	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
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	Photocatalytic and electrically conductive transparent Cl-doped ZnO thin films <i>via</i> aerosol-assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12682-12692.	10.3	34
13	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
14	Aerosols: A Sustainable Route to Functional Materials. <i>Chemistry - A European Journal</i> , 2017, 23, 15543-15552.	3.3	32
15	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
16	Chemically Treated 3D Printed Polymer Scaffolds for Biomineral Formation. <i>ACS Omega</i> , 2018, 3, 4342-4351.	3.5	24
17	Magnetic hyperthermia controlled drug release in the GI tract: solving the problem of detection. <i>Scientific Reports</i> , 2016, 6, 34271.	3.3	23
18	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

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19	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
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	Direct and continuous hydrothermal flow synthesis of thermochromic phase pure monoclinic VO ₂ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11731-11739.	5.5	15
22	Surface radio-mineralisation mediates chelate-free radiolabelling of iron oxide nanoparticles. <i>Chemical Science</i> , 2019, 10, 2592-2597.	7.4	15
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	[{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
25	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
26	The Effect of Alkali Metal (Na, K) Doping on Thermochromic Properties of VO ₂ Films. <i>MRS Advances</i> , 2018, 3, 1863-1869.	0.9	5
27	Probability Density Functions for Droplet Sizing in Aerosol Transport Modelling. <i>Computer Aided Chemical Engineering</i> , 2017, , 2245-2250.	0.5	3
28	Frontispiece: Aerosols: A Sustainable Route to Functional Materials. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	1