

Geoffrey Hyett

List of Publications by Year in descending order

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56
papers

3,767
citations

304743

22
h-index

175258

52
g-index

60
all docs

60
docs citations

60
times ranked

5446
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanochemistry: opportunities for new and cleaner synthesis. <i>Chemical Society Reviews</i> , 2012, 41, 413-447.	38.1	2,281
2	Doped and un-doped vanadium dioxide thin films prepared by atmospheric pressure chemical vapour deposition from vanadyl acetylacetonate and tungsten hexachloride: the effects of thickness and crystallographic orientation on thermochromic properties. <i>Journal of Materials Chemistry</i> , 2007, 17, 4652.	6.7	134
3	A critical analysis of calcium carbonate mesocrystals. <i>Nature Communications</i> , 2014, 5, 4341.	12.8	122
4	The interaction between gold nanoparticles and cationic and anionic dyes: enhanced UV-visible absorption. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10513.	2.8	86
5	Zinc Oxide Thin Films Grown by Aerosol Assisted CVD. <i>Chemical Vapor Deposition</i> , 2008, 14, 366-372.	1.3	69
6	Nanoparticulate silver coated-titania thin films – Photo-oxidative destruction of stearic acid under different light sources and antimicrobial effects under hospital lighting conditions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 220, 113-123.	3.9	69
7	The Use of Combinatorial Chemical Vapor Deposition in the Synthesis of $Ti_{3-x}O_{4+x}N$ with $0.06 \leq x \leq 0.25$: A Titanium Oxynitride Phase Isostructural to Anosovite. <i>Journal of the American Chemical Society</i> , 2007, 129, 15541-15548.	13.7	67
8	X-ray Diffraction Area Mapping of Preferred Orientation and Phase Change in TiO_2 Thin Films Deposited by Chemical Vapor Deposition. <i>Journal of the American Chemical Society</i> , 2006, 128, 12147-12155.	13.7	65
9	High-Throughput Continuous Hydrothermal Synthesis of an Entire Nanoceramic Phase Diagram. <i>ACS Combinatorial Science</i> , 2009, 11, 829-834.	3.3	65
10	MOCVD of crystalline Bi_2O_3 thin films using a single-source bismuth alkoxide precursor and their use in photodegradation of water. <i>Journal of Materials Chemistry</i> , 2010, 20, 7881.	6.7	59
11	Aerosol-Assisted Chemical Vapor Deposition of Transparent Conductive Gallium-Indium Oxide Films. <i>Chemistry of Materials</i> , 2011, 23, 1719-1726.	6.7	59
12	Aerosol assisted chemical vapour deposition of MoO_3 and MoO_2 thin films on glass from molybdenum polyoxometallate precursors; thermophoresis and gas phase nanoparticle formation. <i>Journal of Materials Chemistry</i> , 2006, 16, 3575.	6.7	55
13	Synthesis and characterization of mixed phase anatase TiO_2 and sodium-doped $TiO_2(B)$ thin films by low pressure chemical vapour deposition (LPCVD). <i>RSC Advances</i> , 2014, 4, 48507-48515.	3.6	47
14	Combinatorial atmospheric pressure chemical vapour deposition (cAPCVD) of a mixed vanadium oxide and vanadium oxynitride thin film. <i>Journal of Materials Chemistry</i> , 2009, 19, 1399.	6.7	45
15	Aerosol-Assisted CVD of Titanium Dioxide Thin Films from Methanolic Solutions of Titanium Tetraisopropoxide; Substrate and Aerosol-Selective Deposition of Rutile or Anatase. <i>Chemical Vapor Deposition</i> , 2011, 17, 30-36.	1.3	35
16	An investigation into the effect of thickness of titanium dioxide and gold-silver nanoparticle titanium dioxide composite thin-films on photocatalytic activity and photo-induced oxygen production in a sacrificial system. <i>Journal of Materials Chemistry</i> , 2011, 21, 6854.	6.7	31
17	Electronically Driven Structural Distortions in Lithium Intercalates of the $n = 2$ Ruddlesden-Popper-Type Host $Y_2Ti_2O_5S_2$: Synthesis, Structure, and Properties of $Li_xY_2Ti_2O_5S_2$ ($0 < x < 1$) DOI: 10.1039/c1cc10784314	11.0	27
18	The use of cationic surfactants to control the structure of zinc oxide films prepared by chemical vapour deposition. <i>Chemical Communications</i> , 2012, 48, 1490-1492.	4.1	27

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19	Templated growth of smart nanocomposite thin films: Hybrid aerosol assisted and atmospheric pressure chemical vapour deposition of vanadyl acetylacetonate, auric acid and tetraoctyl ammonium bromide. <i>Polyhedron</i> , 2009, 28, 2233-2239.	2.2	24
20	Topotactic Oxidative and Reductive Control of the Structures and Properties of Layered Manganese Oxychalcogenides. <i>Journal of the American Chemical Society</i> , 2007, 129, 11192-11201.	13.7	23
21	The Preparation of Titanium Dioxide Gas Sensors by the Electric Field Assisted Aerosol CVD Reaction of Titanium Isopropoxide in Toluene. <i>Chemical Vapor Deposition</i> , 2012, 18, 102-106.	1.3	23
22	Ultra-violet light activated photocatalysis in thin films of the titanium oxynitride, Ti ₃ N ₂ O ₄ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 203, 199-203.	3.9	22
23	Photomagnetic studies on spin-crossover solid solutions containing two different metal complexes, [Fe(1-bpp) ₂] _x [M(terpy) ₂] _{1-x} [BF ₄] ₂ (M = Ru or Co). <i>Dalton Transactions</i> , 2012, 41, 4896.	3.3	22
24	An Investigation into the Optimum Thickness of Titanium Dioxide Thin Films Synthesized by Using Atmospheric Pressure Chemical Vapour Deposition for Use in Photocatalytic Water Oxidation. <i>Chemistry - A European Journal</i> , 2010, 16, 10546-10552.	3.3	18
25	Sodium Intercalation into the n = 2 Ruddlesden-Popper Type Host Y ₂ Ti ₂ O ₅ S ₂ : Synthesis, Structure, and Properties of Na _x Y ₂ Ti ₂ O ₅ S ₂ (0 < x < 1). <i>Chemistry of Materials</i> , 2003, 15, 5065-5072.	6.7	17
26	Tungsten Oxide and Tungsten Oxide-Titania Thin Films Prepared by Aerosol-Assisted Deposition Use of Preformed Solid Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1415-1421.	2.0	17
27	The effect of oxygen-containing reagents on the crystal morphology and orientation in tungsten oxide thin films deposited via atmospheric pressure chemical vapour deposition (APCVD) on glass substrates. <i>Faraday Discussions</i> , 2007, 136, 329.	3.2	16
28	Antimicrobial Activity in Thin Films of Pseudobrookite Structured Titanium Oxynitride under UV Irradiation Observed for <i>Escherichia coli</i> . <i>Chemical Vapor Deposition</i> , 2010, 16, 19-22.	1.3	16
29	Demonstration of Visible Light-Activated Photocatalytic Self-Cleaning by Thin Films of Perovskite Tantalum and Niobium Oxynitrides. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33603-33612.	8.0	16
30	Chromium oxyselenide solid solutions from the atmospheric pressure chemical vapour deposition of chromyl chloride and diethylselenide. <i>Journal of Materials Chemistry</i> , 2008, 18, 1667.	6.7	15
31	Computationally Driven Discovery of Layered Quinary Oxychalcogenides: Potential p-Type Transparent Conductors?. <i>Matter</i> , 2020, 3, 759-781.	10.0	15
32	A combinatorial approach to phase synthesis and characterisation in atmospheric pressure chemical vapour deposition. <i>Surface and Coatings Technology</i> , 2007, 201, 8966-8970.	4.8	14
33	Competing Magnetic Structures and the Evolution of Copper Ion/Vacancy Ordering with Composition in the Manganite Oxide Chalcogenides Sr ₂ MnO ₂ Cu _{1.5} (S _{1-x} Se _x) ₂ . <i>Chemistry of Materials</i> , 2012, 24, 2802-2816.	6.7	14
34	High-Throughput Continuous Hydrothermal Synthesis of Nanomaterials (Part II): Unveiling the As-Prepared Ce _x Zr _y YO ₂ Phase Diagram. <i>ACS Combinatorial Science</i> , 2013, 15, 458-463.	3.8	14
35	An Investigation of Titanium-Vanadium Nitride Phase Space, Conducted Using Combinatorial Atmospheric Pressure CVD. <i>Chemical Vapor Deposition</i> , 2008, 14, 309-312.	1.3	12
36	Ba ₂ Mn ₂ O ₄ Cu _{0.9} S: A layered Oxysulfide with a New Perovskite-Related Manganese Oxide Fragment. <i>Chemistry of Materials</i> , 2008, 20, 559-566.	6.7	12

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37	Synthesis and energy modelling studies of titanium oxy-nitride films as energy efficient glazing. Solar Energy Materials and Solar Cells, 2013, 118, 149-156.	6.2	11
38	Observation of visible light activated photocatalytic degradation of stearic acid on thin films of tantalum oxynitride synthesized by aerosol assisted chemical vapour deposition. Dalton Transactions, 2019, 48, 10619-10627.	3.3	11
39	The Effect of Film Thickness on the Suitability of Titanium Oxynitride ($Ti_{1-x}O_{1+y}$, $x < 1$ + $y < 1$) Films as Heat Mirrors Formed by the Atmospheric Pressure CVD of $TiCl_4$ and NH_3 . Chemical Vapor Deposition, 2007, 13, 675-679.	1.3	10
40	Substrate-Dependent Ability of Titanium(IV) Oxide Photocatalytic Thin Films Prepared by Thermal CVD to Generate Hydrogen Gas from a Sacrificial Reaction. Chemical Vapor Deposition, 2010, 16, 301-304.	1.3	9
41	Synthesis and characterization of a mixed phase of anatase TiO_2 and $TiO_2(B)$ by low pressure chemical vapour deposition (LPCVD) for high photocatalytic activity. Journal of Physics: Conference Series, 2014, 522, 012074.	0.4	9
42	Order of magnitude increase in photocatalytic rate for hierarchically porous anatase thin films synthesized from zinc titanate coatings. Dalton Transactions, 2017, 46, 1975-1985.	3.3	9
43	High-Pressure Behavior and Polymorphism of Titanium Oxynitride Phase $Ti_{2.85}O_{4N}$. Journal of Physical Chemistry C, 2010, 114, 8546-8551.	3.1	8
44	A Facile Route to Thin Films of Zinc Carbodiimide Using Aerosol-Assisted CVD. Chemical Vapor Deposition, 2015, 21, 281-287.	1.3	8
45	Combining single source chemical vapour deposition precursors to explore the phase space of titanium oxynitride thin films. Dalton Transactions, 2018, 47, 10536-10543.	3.3	8
46	Photocatalytic, structural and optical properties of mixed anion solid solutions $Ba_3Sc_2-xIn_xO_5Cu_2S_2$ and $Ba_3In_2O_5Cu_2S_2-ySe_y$. Journal of Materials Chemistry A, 2020, 8, 19887-19897.	10.3	8
47	Combinatorial CVD: New Oxy-nitride Photocatalysts. ECS Transactions, 2009, 25, 1239-1250.	0.5	7
48	Phosphinecarboxamide as an unexpected phosphorus precursor in the chemical vapour deposition of zinc phosphide thin films. Dalton Transactions, 2018, 47, 9221-9225.	3.3	6
49	The Use of Additives to Control the Morphology of Thin Films Synthesized Using Aerosol Assisted Chemical Vapour Deposition. Physics Procedia, 2013, 46, 21-26.	1.2	3
50	A neutron diffraction study of oxygen and nitrogen ordering in a kinetically stable orthorhombic iron doped titanium oxynitride. Journal of Solid State Chemistry, 2012, 190, 169-173.	2.9	2
51	Oxide Nanoparticle Thin Films Created Using Molecular Templates. Journal of Physical Chemistry C, 2011, 115, 13151-13157.	3.1	1
52	Investigation of factors affecting the stability of compounds formed by isovalent substitution in layered oxychalcogenides, leading to identification of $Ba_3Sc_2O_5Cu_2Se_2$, $Ba_3Sc_2Y_2O_5Cu_2S_2$, $Ba_3Sc_2O_5Ag_2Se_2$ and $Ba_3In_2O_5Ag_2Se_2$. Journal of Materials Chemistry	5.5	1
53	Sodium Intercalation into the $n = 2$ Ruddlesden-Popper Type Host $Y_2Ti_2O_5S_2$: Synthesis, Structure, and Properties of $\pm-Na_xY_2Ti_2O_5S_2$ ($0 < x \leq 1$). ChemInform, 2004, 35, no.	0.0	0
54	Electronically Driven Structural Distortions in Lithium Intercalates of the $n = 2$ Ruddlesden-Popper-Type Host $Y_2Ti_2O_5S_2$: Synthesis, Structure, and Properties of $Li_xY_2Ti_2O_5S_2$ ($0 < x < 1$). J. Electrochem. Soc., 2007, 154, 1000-1006.	0.0	0

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55	The Synthesis of Tantalum (V) Oxide Using Atmospheric Pressure Chemical Vapour Deposition for the Purposes of Photo-activated Water Splitting. ECS Transactions, 2009, 25, 935-942.	0.5	0
56	The Use of Quaternary Ammonium Bromides to Control the Microstructure of Zinc Oxide Films Formed Using Aerosol Assisted Chemical Vapour Deposition. Journal of Nanoscience and Nanotechnology, 2016, 16, 10152-10159.	0.9	0