

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 | Investigation of factors affecting the stability of compounds formed by isovalent substitution in layered oxychalcogenides, leading to identification of $\text{Ba}_3\text{Sc}_2\text{O}_5\text{Cu}_2\text{Se}_2$, $\text{Ba}_3\text{Y}_2\text{O}_5\text{Cu}_2\text{S}_2$, $\text{Ba}_3\text{Sc}_2\text{O}_5\text{Ag}_2\text{Se}_2$ and $\text{Ba}_3\text{In}_2\text{O}_5\text{Ag}_2\text{Se}_2$. <i>Journal of Materials Chemistry</i> , 2019, 29, 10619-10627. | 5.5 | 1 |
| 2 | 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 |
| 3 | Computationally Driven Discovery of Layered Quinary Oxychalcogenides: Potential p-Type Transparent Conductors?. <i>Matter</i> , 2020, 3, 759-781. | 10.0 | 15 |
| 4 | Photocatalytic, structural and optical properties of mixed anion solid solutions $\text{Ba}_3\text{Sc}_2\text{xIn}_x\text{O}_5\text{Cu}_2\text{S}_2$ and $\text{Ba}_3\text{In}_2\text{O}_5\text{Cu}_2\text{S}_2\text{ySe}_y$. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19887-19897. | 10.3 | 8 |
| 5 | Observation of visible light activated photocatalytic degradation of stearic acid on thin films of tantalum oxynitride synthesized by aerosol assisted chemical vapour deposition. <i>Dalton Transactions</i> , 2019, 48, 10619-10627. | 3.3 | 11 |
| 6 | Combining single source chemical vapour deposition precursors to explore the phase space of titanium oxynitride thin films. <i>Dalton Transactions</i> , 2018, 47, 10536-10543. | 3.3 | 8 |
| 7 | Phosphinecarboxamide as an unexpected phosphorus precursor in the chemical vapour deposition of zinc phosphide thin films. <i>Dalton Transactions</i> , 2018, 47, 9221-9225. | 3.3 | 6 |
| 8 | Order of magnitude increase in photocatalytic rate for hierarchically porous anatase thin films synthesized from zinc titanate coatings. <i>Dalton Transactions</i> , 2017, 46, 1975-1985. | 3.3 | 9 |
| 9 | The Use of Quaternary Ammonium Bromides to Control the Microstructure of Zinc Oxide Films Formed Using Aerosol Assisted Chemical Vapour Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10152-10159. | 0.9 | 0 |
| 10 | A Facile Route to Thin Films of Zinc Carbodiimide Using Aerosol-assisted CVD. <i>Chemical Vapor Deposition</i> , 2015, 21, 281-287. | 1.3 | 8 |
| 11 | Synthesis and characterization of a mixed phase of anatase TiO_2 and $\text{TiO}_2(\text{B})$ by low pressure chemical vapour deposition (LPCVD) for high photocatalytic activity. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012074. | 0.4 | 9 |
| 12 | Synthesis and characterization of mixed phase anatase TiO_2 and sodium-doped $\text{TiO}_2(\text{B})$ thin films by low pressure chemical vapour deposition (LPCVD). <i>RSC Advances</i> , 2014, 4, 48507-48515. | 3.6 | 47 |
| 13 | A critical analysis of calcium carbonate mesocrystals. <i>Nature Communications</i> , 2014, 5, 4341. | 12.8 | 122 |
| 14 | The Use of Additives to Control the Morphology of Thin Films Synthesized Using Aerosol Assisted Chemical Vapour Deposition. <i>Physics Procedia</i> , 2013, 46, 21-26. | 1.2 | 3 |
| 15 | Synthesis and energy modelling studies of titanium oxy-nitride films as energy efficient glazing. <i>Solar Energy Materials and Solar Cells</i> , 2013, 118, 149-156. | 6.2 | 11 |
| 16 | High-Throughput Continuous Hydrothermal Synthesis of Nanomaterials (Part II): Unveiling the As-Prepared $\text{Ce}_x\text{Zr}_y\text{Y}_z\text{O}_{2+\delta}$ Phase Diagram. <i>ACS Combinatorial Science</i> , 2013, 15, 458-463. | 3.8 | 14 |
| 17 | Photomagnetic studies on spin-crossover solid solutions containing two different metal complexes, $[\text{Fe}(\text{1-bpp})_2]_x[\text{M}(\text{terpy})_2]_{1-x}[\text{BF}_4]_2$ (M = Ru or Co). <i>Dalton Transactions</i> , 2012, 41, 4896. | 3.3 | 22 |
| 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 | Competing Magnetic Structures and the Evolution of Copper Ion/Vacancy Ordering with Composition in the Manganite Oxide Chalcogenides $\text{Sr}_{2-x}\text{MnO}_{2-x}\text{Cu}_{1.5-x}\text{Se}_2$. Chemistry of Materials, 2012, 24, 2802-2816. | 6.7 | 14 |
| 20 | The Preparation of Titanium Dioxide Gas Sensors by the Electric Field Assisted Aerosol CVD Reaction of Titanium Isopropoxide in Toluene. Chemical Vapor Deposition, 2012, 18, 102-106. | 1.3 | 23 |
| 21 | Mechanochemistry: opportunities for new and cleaner synthesis. Chemical Society Reviews, 2012, 41, 413-447. | 38.1 | 2,281 |
| 22 | 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 |
| 23 | 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. Journal of Materials Chemistry, 2011, 21, 6854. | 6.7 | 31 |
| 24 | Oxide Nanoparticle Thin Films Created Using Molecular Templates. Journal of Physical Chemistry C, 2011, 115, 13151-13157. | 3.1 | 1 |
| 25 | Aerosol-Assisted Chemical Vapor Deposition of Transparent Conductive Gallium-Indium-Oxide Films. Chemistry of Materials, 2011, 23, 1719-1726. | 6.7 | 59 |
| 26 | Aerosol-Assisted CVD of Titanium Dioxide Thin Films from Methanolic Solutions of Titanium Tetrakisopropoxide; Substrate and Aerosol-Selective Deposition of Rutile or Anatase. Chemical Vapor Deposition, 2011, 17, 30-36. | 1.3 | 35 |
| 27 | Nanoparticulate silver coated-titania thin films-Photo-oxidative destruction of stearic acid under different light sources and antimicrobial effects under hospital lighting conditions. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 220, 113-123. | 3.9 | 69 |
| 28 | Antimicrobial Activity in Thin Films of Pseudobrookite-Structured Titanium Oxynitride under UV Irradiation Observed for <i>Escherichia coli</i> . Chemical Vapor Deposition, 2010, 16, 19-22. | 1.3 | 16 |
| 29 | 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 |
| 30 | 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. Chemistry - A European Journal, 2010, 16, 10546-10552. | 3.3 | 18 |
| 31 | MOCVD of crystalline Bi_2O_3 thin films using a single-source bismuth alkoxide precursor and their use in photodegradation of water. Journal of Materials Chemistry, 2010, 20, 7881. | 6.7 | 59 |
| 32 | High-Pressure Behavior and Polymorphism of Titanium Oxynitride Phase $\text{Ti}_{2.85}\text{O}_4\text{N}$. Journal of Physical Chemistry C, 2010, 114, 8546-8551. | 3.1 | 8 |
| 33 | 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 |
| 34 | Combinatorial CVD: New Oxy-nitride Photocatalysts. ECS Transactions, 2009, 25, 1239-1250. | 0.5 | 7 |
| 35 | 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. Polyhedron, 2009, 28, 2233-2239. | 2.2 | 24 |
| 36 | Ultra-violet light activated photocatalysis in thin films of the titanium oxynitride, $\text{Ti}_3\text{O}_4\text{N}$. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 203, 199-203. | 3.9 | 22 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | High-Throughput Continuous Hydrothermal Synthesis of an Entire Nanoceramic Phase Diagram. <i>ACS Combinatorial Science</i> , 2009, 11, 829-834. | 3.3 | 65 |
| 39 | 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 |
| 40 | 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 |
| 41 | Zinc Oxide Thin Films Grown by Aerosol Assisted CVD. <i>Chemical Vapor Deposition</i> , 2008, 14, 366-372. | 1.3 | 69 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | The Use of Combinatorial Chemical Vapor Deposition in the Synthesis of Ti _{3-x} O ₄ N with 0.06 \hat{I} \hat{I} 0.25: A Titanium Oxynitride Phase Isostructural to Anosovite. <i>Journal of the American Chemical Society</i> , 2007, 129, 15541-15548. | 13.7 | 67 |
| 46 | 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 |
| 47 | 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 |
| 48 | The Effect of Film Thickness on the Suitability of Titanium Oxynitride (Ti _x O _y , \hat{I} + \hat{I} = 1) Films as Heat Mirrors Formed by the Atmospheric Pressure CVD of TiCl ₄ and NH ₃ . <i>Chemical Vapor Deposition</i> , 2007, 13, 675-679. | 1.3 | 10 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | Sodium Intercalation into the n = 2 Ruddlesden-Popper Type Host Y ₂ Ti ₂ O ₅ S ₂ : Synthesis, Structure, and Properties of \hat{I} -Na _x Y ₂ Ti ₂ O ₅ S ₂ (0 < x < 1).. <i>ChemInform</i> , 2004, 35, no. | 0.0 | 0 |
| 54 | Electronically Driven Structural Distortions in Lithium Intercalates of the n = 2 Ruddlesden-Popper-Type Host Y ₂ Ti ₂ O ₅ S ₂ : Synthesis, Structure, and Properties of Li _x Y ₂ Ti ₂ O ₅ S ₂ (0 < x < 1) Tj ETQ 0 0 rg BT /Overloc | 0.0 | 0 |

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| 55 | Electronically Driven Structural Distortions in Lithium Intercalates of the n = 2 Ruddlesden-Popper-Type Host Y ₂ Ti ₂ O ₅ S ₂ : Synthesis, Structure, and Properties of Li _x Y ₂ Ti ₂ O ₅ S ₂ (0 < x < 1). <i>J. Phys. Chem. B</i> , 2003, 107, 8431-8441. | 11.0 | 10784314 |
| 56 | 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 |