

Robert G Palgrave

List of Publications by Year in descending order

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98
papers

7,931
citations

94269

37
h-index

48187

88
g-index

110
all docs

110
docs citations

110
times ranked

13702
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonant Electron Spectroscopy: Identification of Atomic Contributions to Valence States. Faraday Discussions, 2022, , .	1.6	2
2	Emerging Earth-Abundant Solar Absorbers. ACS Energy Letters, 2022, 7, 1553-1557.	8.8	19
3	An X-ray photoelectron spectroscopy study of ionic liquids based on a bridged dicationic moiety. Journal of Chemical Research, 2022, 46, 174751982210929.	0.6	3
4	Experimental measurement and prediction of ionic liquid ionisation energies. Physical Chemistry Chemical Physics, 2021, 23, 20957-20973.	1.3	6
5	Synthesis, structural analysis, electrochemical and magnetic properties of tetrachloroferrate ionic liquids. New Journal of Chemistry, 2021, 45, 13429-13440.	1.4	10
6	Indium Gallium Oxide Alloys: Electronic Structure, Optical Gap, Surface Space Charge, and Chemical Trends within Common-Cation Semiconductors. ACS Applied Materials & Interfaces, 2021, 13, 2807-2819.	4.0	50
7	Electro-oxidation of Titanium Carbide Nanoparticles in Aqueous Acid Creates TiC@TiO ₂ Core-shell Structures. ChemElectroChem, 2021, 8, 911-917.	1.7	1
8	Degradation of Layered Oxide Cathode in a Sodium Battery: A Detailed Investigation by X-ray Tomography at the Nanoscale. Small Methods, 2021, 5, e2100596.	4.6	9
9	BaBi ₂ O ₆ : A Promising n-Type Thermoelectric Oxide with the PbSb ₂ O ₆ Crystal Structure. Chemistry of Materials, 2021, 33, 7441-7456.	3.2	11
10	Advanced XPS characterization: XPS-based multi-technique analyses for comprehensive understanding of functional materials. Materials Chemistry Frontiers, 2021, 5, 7931-7963.	3.2	41
11	Enhanced visible light absorption in layered Cs ₃ Bi ₂ Br ₉ through mixed-valence Sn(II)/Sn(IV) doping. Chemical Science, 2021, 12, 14686-14699.	3.7	21
12	Bandgap lowering in mixed alloys of Cs ₂ Ag(Sb _x Bi _{1-x})Br ₆ double perovskite thin films. Journal of Materials Chemistry A, 2020, 8, 21780-21788.	5.2	66
13	Demonstration of Visible Light-Activated Photocatalytic Self-Cleaning by Thin Films of Perovskite Tantalum and Niobium Oxynitrides. ACS Applied Materials & Interfaces, 2020, 12, 33603-33612.	4.0	16
14	Structure and magnetism of the Rh ⁴⁺ -containing perovskite oxides La _{0.5} Sr _{0.5} Mn _{0.5} Rh _{0.5} O ₃ and La _{0.5} Sr _{0.5} Fe _{0.5} Rh _{0.5} O ₃ . Dalton Transactions, 2020, 49, 11346-11353.	1.6	0
15	LaSrCo _{0.5} Rh _{0.5} O _{3.25} and LaSrNi _{0.5} Rh _{0.5} O _{3.25} : Topochemically Reduced, Mixed Valence Rh(I)/Rh(III) Oxides. Inorganic Chemistry, 2020, 59, 13767-13773.	1.9	4
16	Geometric Analysis and Formability of the Cubic A ₂ BX ₆ Vacancy-Ordered Double Perovskite Structure. Chemistry of Materials, 2020, 32, 9573-9583.	3.2	35
17	Patterning of metal oxide thin films using a H ₂ /He atmospheric pressure plasma jet. Green Chemistry, 2020, 22, 1406-1413.	4.6	15
18	Electron spectroscopy of ionic liquids: experimental identification of atomic orbital contributions to valence electronic structure. Physical Chemistry Chemical Physics, 2019, 21, 18893-18910.	1.3	9

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19	Bioinspired Polymerization of Quercetin to Produce a Curcumin-Loaded Nanomedicine with Potent Cytotoxicity and Cancer-Targeting Potential in Vivo. ACS Biomaterials Science and Engineering, 2019, 5, 6036-6045.	2.6	34
20	Anion Distribution, Structural Distortion, and Symmetry-Driven Optical Band Gap Bowing in Mixed Halide Cs ₂ SnX ₆ Vacancy Ordered Double Perovskites. Chemistry of Materials, 2019, 31, 9430-9444.	3.2	83
21	Solvothermal water-diethylene glycol synthesis of LiCoPO ₄ and effects of surface treatments on lithium battery performance. RSC Advances, 2019, 9, 740-752.	1.7	8
22	An experimental and theoretical study into NaSbS ₂ as an emerging solar absorber. Journal of Materials Chemistry C, 2019, 7, 2059-2067.	2.7	25
23	Application of high resolution DLP stereolithography for fabrication of tricalcium phosphate scaffolds for bone regeneration. Biomedical Materials (Bristol), 2019, 14, 045018.	1.7	78
24	Nucleobase pairing and photodimerization in a biologically derived metal-organic framework nanoreactor. Nature Communications, 2019, 10, 1612.	5.8	58
25	Accelerated optimization of transparent, amorphous zinc-tin-oxide thin films for optoelectronic applications. APL Materials, 2019, 7, .	2.2	23
26	Quantifying the Polymeric Capping of Nanoparticles with X-Ray Photoelectron Spectroscopy. ChemPhysChem, 2018, 19, 1341-1343.	1.0	1
27	Singlet Oxygen and the Origin of Oxygen Functionalities on the Surface of Carbon Electrodes. Angewandte Chemie, 2018, 130, 6378-6381.	1.6	10
28	Singlet Oxygen and the Origin of Oxygen Functionalities on the Surface of Carbon Electrodes. Angewandte Chemie - International Edition, 2018, 57, 6270-6273.	7.2	15
29	Shedding Light on the Protonation States and Location of Protonated N Atoms of Adenine in Metal-Organic Frameworks. Inorganic Chemistry, 2018, 57, 1888-1900.	1.9	21
30	Aerosol-assisted chemical vapor deposition of V ₂ O ₅ cathodes with high rate capabilities for magnesium-ion batteries. Journal of Power Sources, 2018, 384, 355-359.	4.0	48
31	Direct and continuous hydrothermal flow synthesis of thermochromic phase pure monoclinic VO ₂ nanoparticles. Journal of Materials Chemistry C, 2018, 6, 11731-11739.	2.7	15
32	Dual-Functional Photocatalysis: Concurrent Photocatalytic Hydrogen Generation and Dye Degradation Using MIL-125-NH ₂ under Visible Light Irradiation (Adv. Funct. Mater. 52/2018). Advanced Functional Materials, 2018, 28, 1870373.	7.8	6
33	Argon plasma improves the tissue integration and angiogenesis of subcutaneous implants by modifying surface chemistry and topography. International Journal of Nanomedicine, 2018, Volume 13, 6123-6141.	3.3	35
34	Concurrent Photocatalytic Hydrogen Generation and Dye Degradation Using MIL-125-NH ₂ under Visible Light Irradiation. Advanced Functional Materials, 2018, 28, 1806368.	7.8	110
35	Experimental validation of calculated atomic charges in ionic liquids. Journal of Chemical Physics, 2018, 148, 193817.	1.2	24
36	Order of magnitude increase in photocatalytic rate for hierarchically porous anatase thin films synthesized from zinc titanate coatings. Dalton Transactions, 2017, 46, 1975-1985.	1.6	9

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37	Correlation of Optical Properties, Electronic Structure, and Photocatalytic Activity in Nanostructured Tungsten Oxide. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700064.	1.9	25
38	Photocatalysis: Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study (<i>Adv. Funct. Mater.</i> 18/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	1
39	Optimized Atmospheric-Pressure Chemical Vapor Deposition Thermo-chromic VO ₂ Thin Films for <i>Intelligent</i> Window Applications. <i>ACS Omega</i> , 2017, 2, 1040-1046.	1.6	56
40	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study. <i>Advanced Functional Materials</i> , 2017, 27, 1605413.	7.8	115
41	Nanoscale, conformal films of graphitic carbon nitride deposited at room temperature: a method for construction of heterojunction devices. <i>Nanoscale</i> , 2017, 9, 16586-16590.	2.8	20
42	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.	1.5	22
43	NEXAFS spectroscopy of ionic liquids: experiments <i>versus</i> calculations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31156-31167.	1.3	16
44	Phase quantification by X-ray photoemission valence band analysis applied to mixed phase TiO ₂ powders. <i>Applied Surface Science</i> , 2017, 423, 205-209.	3.1	24
45	Engineering Valence Band Dispersion for High Mobility p-Type Semiconductors. <i>Chemistry of Materials</i> , 2017, 29, 2402-2413.	3.2	66
46	Atomic charges of sulfur in ionic liquids: experiments and calculations. <i>Faraday Discussions</i> , 2017, 206, 183-201.	1.6	20
47	On the application of the tolerance factor to inorganic and hybrid halide perovskites: a revised system. <i>Chemical Science</i> , 2016, 7, 4548-4556.	3.7	757
48	Rutile to anatase phase transition induced by N doping in highly oriented TiO ₂ films. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24722-24728.	1.3	17
49	An assessment of silver copper sulfides for photovoltaic applications: theoretical and experimental insights. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12648-12657.	5.2	42
50	Plasma Surface Modification of Polyhedral Oligomeric Silsequioxane-Poly(carbonate-urea) Urethane with Allylamine Enhances the Response and Osteogenic Differentiation of Adipose-Derived Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18701-18709.	4.0	20
51	Probing the chemical structure of monolayer covalent-organic frameworks grown via Schiff-base condensation reactions. <i>Chemical Communications</i> , 2016, 52, 9941-9944.	2.2	78
52	Spatial Electron-hole Separation in a One Dimensional Hybrid Organic-Inorganic Lead Iodide. <i>Scientific Reports</i> , 2016, 6, 20626.	1.6	25
53	Development of mechano-responsive polymeric scaffolds using functionalized silica nano-fillers for the control of cellular functions. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1725-1733.	1.7	25
54	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.	3.2	221

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55	Hybrid Organic-Inorganic Coordination Complexes as Tunable Optical Response Materials. <i>Inorganic Chemistry</i> , 2016, 55, 3393-3400.	1.9	31
56	Enhancing tissue integration and angiogenesis of a novel nanocomposite polymer using plasma surface polymerisation, an in vitro and in vivo study. <i>Biomaterials Science</i> , 2016, 4, 145-158.	2.6	37
57	Modular and Versatile Spatial Functionalization of Tissue Engineering Scaffolds through Fiber-Initiated Controlled Radical Polymerization. <i>Advanced Functional Materials</i> , 2015, 25, 5748-5757.	7.8	35
58	Controlled Polymerization: Modular and Versatile Spatial Functionalization of Tissue Engineering Scaffolds through Fiber-Initiated Controlled Radical Polymerization (<i>Adv. Funct. Mater.</i> 36/2015). <i>Advanced Functional Materials</i> , 2015, 25, 5718-5718.	7.8	0
59	Bifunctional redox tagging of carbon nanoparticles. <i>Nanoscale</i> , 2015, 7, 2069-2075.	2.8	3
60	Elucidating the deprotonation of polyaniline films by X-ray photoelectron spectroscopy. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7180-7186.	2.7	95
61	A Nature-Inspired Conjugated Polymer for High Performance Transistors and Solar Cells. <i>Macromolecules</i> , 2015, 48, 5148-5154.	2.2	48
62	Scalable route to CH ₃ NH ₃ PbI ₃ perovskite thin films by aerosol assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9071-9073.	5.2	75
63	Frontispiece: Triazine-Based Graphitic Carbon Nitride: a Two-Dimensional Semiconductor. <i>Angewandte Chemie - International Edition</i> , 2014, 53, n/a-n/a.	7.2	0
64	Frontispiz: Triazine-Based Graphitic Carbon Nitride: a Two-Dimensional Semiconductor. <i>Angewandte Chemie</i> , 2014, 126, n/a-n/a.	1.6	0
65	Triazine-Based Graphitic Carbon Nitride: a Two-Dimensional Semiconductor. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7450-7455.	7.2	523
66	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.	0.8	20
67	A solution chemistry approach to epitaxial growth and stabilisation of Bi ₂ Ti ₂ O ₇ films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18241-18245.	5.2	23
68	Preparation and characterisation of high-density ionic liquids incorporating halobismuthate anions. <i>Dalton Transactions</i> , 2014, 43, 10910-10919.	1.6	19
69	The strong catalytic effect of Pb(ii) on the oxygen reduction reaction on 5 nm gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3200.	1.3	19
70	Band alignment of rutile and anatase TiO ₂ . <i>Nature Materials</i> , 2013, 12, 798-801.	13.3	1,924
71	“Sticky electrodes”™ for the detection of silver nanoparticles. <i>Nanotechnology</i> , 2013, 24, 295502.	1.3	28
72	A Polar Corundum Oxide Displaying Weak Ferromagnetism at Room Temperature. <i>Journal of the American Chemical Society</i> , 2012, 134, 3737-3747.	6.6	73

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73	Artificial Construction of the Layered Ruddlesden-Popper Manganite $\text{La}_2\text{Sr}_2\text{Mn}_3\text{O}_{10}$ by Reflection High Energy Electron Diffraction Monitored Pulsed Laser Deposition. <i>Journal of the American Chemical Society</i> , 2012, 134, 7700-7714.	6.6	29
74	Electronic basis of visible region activity in high area Sn-doped rutile TiO_2 photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7882.	1.3	49
75	Visible Light Photo-oxidation of Model Pollutants Using $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$: An Experimental and Theoretical Study of Optical Properties, Electronic Structure, and Selectivity. <i>Journal of the American Chemical Society</i> , 2011, 133, 1016-1032.	6.6	130
76	Nitridation of nanocrystalline TiO_2 thin films by treatment with ammonia. <i>Thin Solid Films</i> , 2011, 519, 3587-3595.	0.8	14
77	Gas-sensing properties of $\text{Fe}_2\text{xTi}_x\text{O}_3\cdot\text{H}_2\text{O}$ ($x=0\text{--}1.4$). <i>Polyhedron</i> , 2010, 29, 1225-1230.	1.0	7
78	Electronic and Structural Properties of $\text{Sn}_x\text{Ti}_{1-x}\text{O}_2$ (0.0 $\leq x \leq$ 0.1) Solid Solutions. <i>Chemistry of Materials</i> , 2010, 22, 1551-1558.	3.2	55
79	A critical evaluation of the mode of incorporation of nitrogen in doped anatase photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 960-969.	1.3	52
80	Nitrogen diffusion in doped TiO_2 (110) single crystals: a combined XPS and SIMS study. <i>Journal of Materials Chemistry</i> , 2009, 19, 8418.	6.7	64
81	Interfacial Diffusion during Growth of SnO_2 (110) on TiO_2 (110) by Oxygen Plasma Assisted Molecular Beam Epitaxy. <i>Crystal Growth and Design</i> , 2009, 9, 1793-1797.	1.4	20
82	Surfactant directed chemical vapour deposition of gold nanoparticles with narrow size distributions. <i>Gold Bulletin</i> , 2008, 41, 66-69.	3.2	27
83	Reactivity of ZrCl_4 and HfCl_4 with silylamines and thermal decomposition of the compounds $[\text{MCl}_4\{\text{NH}(\text{R})(\text{SiR}'_2)_3\}]$ ($\text{M}=\text{Zr}, \text{Hf}$, $\text{R}=\text{tBu}$, $\text{R}'=\text{Me}$; $\text{R}=\text{SiR}'_2=\text{SiMe}_3, \text{SiMe}_2\text{H}$). <i>Polyhedron</i> , 2008, 27, 1041-1046.	1.0	15
84	Syntheses, X-ray structures and CVD studies of diorganoalkoxogallanes. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1787-1796.	0.8	36
85	Atmospheric pressure chemical vapour deposition of SnSe and SnSe_2 thin films on glass. <i>Thin Solid Films</i> , 2008, 516, 4750-4757.	0.8	156
86	Gallium oxide thin films from the AACVD of $[\text{Ga}(\text{NMe}_2)_3]_2$ and donor functionalised alcohols. <i>Dalton Transactions</i> , 2008, , 591.	1.6	44
87	Aerosol-assisted chemical vapour deposition of WO_3 thin films using polyoxometallate precursors and their gas sensing properties. <i>Journal of Materials Chemistry</i> , 2007, 17, 1063.	6.7	57
88	Aerosol assisted chemical vapour deposition of WO_3 thin films from tungsten hexacarbonyl and their gas sensing properties. <i>Journal of Materials Chemistry</i> , 2007, 17, 3708.	6.7	64
89	Aerosol Assisted Chemical Vapor Deposition of Gold and Nanocomposite Thin Films from Hydrogen Tetrachloroaurate(III). <i>Chemistry of Materials</i> , 2007, 19, 4639-4647.	3.2	63
90	Titania and silver-titania composite films on glass-potent antimicrobial coatings. <i>Journal of Materials Chemistry</i> , 2007, 17, 95-104.	6.7	304

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91	Synthesis and Characterisation of Chromium Oxyselenide (Cr ₂ Se _{0.7} O _{2.3}) Formed from Chemical Vapour Synthesis: A New Antiferromagnet. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4579-4582.	1.0	7
92	Chemical vapour deposition of titanium chalcogenides and pnictides and tungsten oxide thin films. <i>New Journal of Chemistry</i> , 2006, 30, 505.	1.4	30
93	Aerosol Assisted Chemical Vapor Deposition Using Nanoparticle Precursors: A Route to Nanocomposite Thin Films. <i>Journal of the American Chemical Society</i> , 2006, 128, 1587-1597.	6.6	151
94	Atmospheric Pressure CVD of Molybdenum Diselenide Films on Glass. <i>Chemical Vapor Deposition</i> , 2006, 12, 692-698.	1.4	53
95	Self-cleaning coatings. <i>Journal of Materials Chemistry</i> , 2005, 15, 1689.	6.7	855
96	Aerosol assisted chemical vapour deposition of photochromic tungsten oxide and doped tungsten oxide thin films. <i>Journal of Materials Chemistry</i> , 2004, 14, 2864.	6.7	79
97	Chapter 10. CVD of Functional Coatings on Glass. , 0, , 451-476.		0
98	Multicoated composites of nano silicon and graphene nanoplatelets as anodes in Li-ion batteries. <i>Materials Advances</i> , 0, , .	2.6	1