

Paul A Bingham

List of Publications by Year in descending order

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94
papers

2,069
citations

236925

25
h-index

276875

41
g-index

97
all docs

97
docs citations

97
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of modifier additions on the thermal properties, chemical durability, oxidation state and structure of iron phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1526-1538.	3.1	160
2	Soft Chemical Control of Superconductivity in Lithium Iron Selenide Hydroxides $\text{Li}_x\text{Fe}_y(\text{OH})\text{Fe}_z\text{Se}$. <i>Inorganic Chemistry</i> , 2015, 54, 1958-1964.	4.0	102
3	Doping of iron phosphate glasses with Al_2O_3 , SiO_2 or B_2O_3 for improved thermal stability. <i>Materials Research Bulletin</i> , 2006, 41, 1622-1630.	5.2	82
4	Vitrification of toxic wastes: a brief review. <i>Advances in Applied Ceramics</i> , 2006, 105, 21-31.	1.1	81
5	Elucidating the Mechanistic Origin of a Spin State-Dependent $\text{FeN}_x\text{-}^{\text{C}}$ Catalyst toward Organic Contaminant Oxidation via Peroxymonosulfate Activation. <i>Environmental Science & Technology</i> , 2022, 56, 1321-1330.	10.0	81
6	Redox and clustering of iron in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 1999, 253, 203-209.	3.1	78
7	Dissolution of vitrified wastes in a high-pH calcium-rich solution. <i>Journal of Nuclear Materials</i> , 2013, 435, 112-122.	2.7	70
8	PVP surfactant-modified flower-like BiOBr with tunable bandgap structure for efficient photocatalytic decontamination of pollutants. <i>Applied Surface Science</i> , 2020, 530, 147233.	6.1	67
9	Local structure and medium range ordering of tetrahedrally coordinated Fe^{3+} ions in alkali-alkaline earth-silica glasses. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 2479-2494.	3.1	60
10	Fiberglass and Glass Technology. , 2010, , .		60
11	Roman blue-green bottle glass: chemical-optical analysis and high temperature viscosity modelling. <i>Journal of Archaeological Science</i> , 2008, 35, 302-309.	2.4	51
12	$\text{BiOBr}/\text{MoS}_2$ catalyst as heterogenous peroxymonosulfate activator toward organic pollutant removal: Energy band alignment and mechanism insight. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 635-649.	9.4	51
13	Novel structural behaviour of iron in alkali-alkaline-earth-silica glasses. <i>Comptes Rendus Chimie</i> , 2002, 5, 787-796.	0.5	49
14	Sulphate incorporation and glass formation in phosphate systems for nuclear and toxic waste immobilization. <i>Materials Research Bulletin</i> , 2008, 43, 1679-1693.	5.2	49
15	Towards improved cover glasses for photovoltaic devices. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 1187-1206.	8.1	43
16	A new method to inertize incinerator toxic fly ash with silica from rice husk ash. <i>Environmental Chemistry Letters</i> , 2013, 11, 329-333.	16.2	42
17	Self-Assembly of Nanosheet-Supported Fe-MOF Heterocrystals as a Reusable Catalyst for Boosting Advanced Oxidation Performance via Radical and Nonradical Pathways. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22694-22707.	8.0	40
18	Corrosion of glass contact refractories for the vitrification of radioactive wastes: a review. <i>International Materials Reviews</i> , 2011, 56, 226-242.	19.3	39

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19	Boron environments and irradiation stability of iron borophosphate glasses analysed by EELS. Solid State Sciences, 2008, 10, 1194-1199.	3.2	38
20	Selective behaviour of dilute Fe ³⁺ ions in silicate glasses: an Fe K-edge EXAFS and XANES study. Journal of Non-Crystalline Solids, 2014, 387, 47-56.	3.1	36
21	The effects of ¹³⁷ I-radiation on model vitreous wasteforms intended for the disposal of intermediate and high level radioactive wastes in the United Kingdom. Journal of Nuclear Materials, 2012, 429, 353-367.	2.7	34
22	Vitrified metal finishing wastes. Composition, density and chemical durability. Journal of Hazardous Materials, 2005, 119, 125-133.	12.4	33
23	Vitrified metal finishing wastes. Journal of Hazardous Materials, 2005, 122, 129-138.	12.4	32
24	Modelling the sulfate capacity of simulated radioactive waste borosilicate glasses. Journal of Alloys and Compounds, 2017, 695, 656-667.	5.5	31
25	Mechanical properties of nuclear waste glasses. Journal of Nuclear Materials, 2011, 408, 188-193.	2.7	28
26	Crystallization behavior of iron- and boron-containing nepheline (Na ₂ O·Al ₂ O ₃ ·2SiO ₂) based model high-level nuclear waste glasses. Journal of the American Ceramic Society, 2019, 102, 1101-1121.	3.8	28
27	Enhanced thermal stability of high-bismuth borate glasses by addition of iron. Journal of Non-Crystalline Solids, 2018, 500, 149-157.	3.1	27
28	The Use of Surrogates in Waste Immobilization Studies: A Case Study of Plutonium. Materials Research Society Symposia Proceedings, 2008, 1107, 1.	0.1	26
29	The Structural Role of Zn in Nuclear Waste Glasses. International Journal of Applied Glass Science, 2011, 2, 343-353.	2.0	23
30	Integrated management of ash from industrial and domestic combustion: a new sustainable approach for reducing greenhouse gas emissions from energy conversion. Environmental Science and Pollution Research, 2017, 24, 14834-14846.	5.3	23
31	Structural phase transitions in Ti-doped Bi _{1-x} Nd _x FeO ₃ ceramics. Journal of Applied Physics, 2012, 111, .	2.5	22
32	Oxidation state and local environment of selenium in alkali borosilicate glasses for radioactive waste immobilisation. Journal of Non-Crystalline Solids, 2011, 357, 2726-2734.	3.1	21
33	Neutron Diffraction and Raman Studies of the Incorporation of Sulfate in Silicate Glasses. Journal of Physical Chemistry C, 2020, 124, 5409-5424.	3.1	20
34	Gamma irradiation-induced defects in borosilicate glasses for high-level radioactive waste immobilisation. Journal of Nuclear Materials, 2021, 544, 152702.	2.7	19
35	Preliminary studies of sulphate solubility and redox in 60P ₂ O ₅ -40Fe ₂ O ₃ glasses. Materials Letters, 2006, 60, 844-847.	2.6	16
36	Topochemical Fluorination of Sr ₃ (M _{0.5} Ru _{0.5}) ₂ O ₇ (M = Ti, Mn, Fe), n = 2, Ruddlesden-Popper Phases. Inorganic Chemistry, 2013, 52, 3388-3398.	4.0	16

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37	An injectable, self-healing and MMP-inhibiting hyaluronic acid gel via iron coordination. International Journal of Biological Macromolecules, 2020, 165, 2022-2029.	7.5	16
38	Photo-Fenton degradation of methylene blue using hematite-enriched slag under visible light. Journal of Radioanalytical and Nuclear Chemistry, 2020, 325, 537-549.	1.5	16
39	Thermal treatment of simulant plutonium contaminated materials from the Sellafield site by vitrification in a blast-furnace slag. Journal of Nuclear Materials, 2014, 444, 186-199.	2.7	15
40	Arsenic stabilization in coal fly ash through the employment of waste materials. Journal of Environmental Chemical Engineering, 2014, 2, 1352-1357.	6.7	15
41	Microporous glass ceramics from combination of silicate, borate and phosphate wastes. Advances in Applied Ceramics, 2012, 111, 415-421.	1.1	14
42	Thermal conductivity of refractory glass fibres. Journal of Thermal Analysis and Calorimetry, 2016, 125, 35-44.	3.6	13
43	Doped $\text{Sr}_{2}\text{Fe}_{6}\text{O}_{16}$ Phase Separation and a $\text{J}^{\text{eff}} = 0$ State for Ir_{5+} . Inorganic Chemistry, 2018, 57, 10303-10311.	4.0	13
44	Structural, electrical and photocatalytic properties of iron-containing soda-lime aluminosilicate glass and glass-ceramics. Journal of Non-Crystalline Solids, 2021, 553, 120510.	3.1	13
45	Melting behavior of waste glass cullet briquettes in soda-lime-silica container glass batch. International Journal of Applied Glass Science, 2019, 10, 125-137.	2.0	12
46	Topochemical Reduction of the Ruddlesden-Popper Phases $\text{Sr}_{2}\text{Fe}_{0.5}\text{Ru}_{0.5}\text{O}_{4}$ and $\text{Sr}_{3}(\text{Fe}_{0.5}\text{Ru}_{0.5})_{2}\text{O}_{7}$. Inorganic Chemistry, 2013, 52, 10920-10928.	4.0	11
47	Variable Temperature ^{57}Fe -Mössbauer Spectroscopy Study of Nanoparticle Iron Carbides. Croatica Chemica Acta, 2015, 88, 531-537.	0.4	11
48	Immobilisation of Simulated Plutonium-Contaminated Material in Phosphate Glass: An Initial Scoping Study. Materials Research Society Symposia Proceedings, 2006, 932, 1.	0.1	10
49	Sintered silicophosphate glass ceramics from MBM ash and recycled soda-lime-silica glass. Advances in Applied Ceramics, 2011, 110, 41-48.	1.1	10
50	Structure of NaFeSiO_4 , $\text{NaFeSi}_2\text{O}_6$, and $\text{NaFeSi}_3\text{O}_8$ glasses and glass-ceramics. American Mineralogist, 2020, 105, 1375-1384.	1.9	10
51	Mössbauer studies of phosphate glasses for the immobilisation of toxic and nuclear wastes. Hyperfine Interactions, 2007, 165, 135-140.	0.5	9
52	Structure of iron phosphate glasses modified by alkali and alkaline earth additions: neutron and x-ray diffraction studies. Journal of Physics Condensed Matter, 2012, 24, 175403.	1.8	9
53	The relationship between local structure and photo-Fenton catalytic ability of glasses and glass-ceramics prepared from Japanese slag. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 751-761.	1.5	9
54	X-ray Fluorescence Analysis of Feldspars and Silicate Glass: Effects of Melting Time on Fused Bead Consistency and Volatilisation. Minerals (Basel, Switzerland), 2020, 10, 442.	2.0	9

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55	Optical and structural properties of d0 ion-doped silicate glasses for photovoltaic applications. Journal of Commonwealth Law and Legal Education, 2018, 59, 193-202.	0.5	8
56	CO3+1 network formation in ultra-high pressure carbonate liquids. Scientific Reports, 2019, 9, 15416.	3.3	8
57	Composition-structure-property effects of antimony in soda-lime-silica glasses. Journal of Non-Crystalline Solids, 2020, 544, 120184.	3.1	8
58	Exploratory research in alternative raw material sources and reformulation for industrial soda-lime-silica glass batches. International Journal of Applied Glass Science, 2020, 11, 340-356.	2.0	8
59	A new nanotechnology of fly ash inertization based on the use of silica gel extracted from rice husk ash and microwave treatment. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2014, 228, 27-32.	0.1	7
60	Physical properties and sinterability of pure and iron-doped bismuth sodium titanate ceramics. Journal of the Australian Ceramic Society, 2020, 56, 1441-1449.	1.9	7
61	Design of New Energy-Friendly Compositions. , 2010, , 267-351.		7
62	Nanobead Formation and Nanopatterning in Glasses. Microscopy and Microanalysis, 2008, 14, 434-435.	0.4	6
63	Structural studies of iron in vitrified toxic wastes. Hyperfine Interactions, 2009, 192, 37-42.	0.5	6
64	Concerning the use of standards for identifying coordination environments in glasses. Journal of Physics: Conference Series, 2010, 217, 012072.	0.4	6
65	Magnetic interactions in cubic-, hexagonal- and trigonal-barium iron oxide fluoride, BaFeO ₂ F. Journal of Physics Condensed Matter, 2016, 28, 346001.	1.8	6
66	Structure and properties of Na ₅ FeSi ₄ O ₁₂ crystallized from 5Na ₂ O·Fe ₂ O ₃ ·8SiO ₂ glass. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 1595-1602.	0.5	6
67	MAS-NMR studies of carbonate retention in a very wide range of Na ₂ O-SiO ₂ glasses. Journal of Non-Crystalline Solids, 2020, 534, 119958.	3.1	6
68	Effects of composition and phase relations on mechanical properties and crystallization of silicate glasses. Journal of the American Ceramic Society, 2021, 104, 3921-3946.	3.8	6
69	Increasing force generation in electroadhesive devices through modelling of novel electrode geometries. Journal of Electrostatics, 2021, 109, 103540.	1.9	6
70	Briquetting of waste glass cullet fine particles for energy saving glass manufacture. Glass Technology: European Journal of Glass Science and Technology Part A, 2018, 59, 81-91.	0.2	6
71	Waste Loading of Actinide Chloride Surrogates in an Iron Phosphate Glass. Materials Research Society Symposia Proceedings, 2008, 1107, 1.	0.1	5
72	Mössbauer studies of materials used to immobilise industrial wastes. Hyperfine Interactions, 2013, 217, 83-90.	0.5	5

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73	Complex Magnetic Ordering in the Oxide Selenide $\text{Sr}_{2}\text{Fe}_{3}\text{Se}_{2}\text{O}_{3}$. <i>Inorganic Chemistry</i> , 2018, 57, 10312-10322.	4.0	5
74	A Mössbauer Study of Iron in Vitrified Wastes. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1107, 1.	0.1	4
75	Synthesis and Characterization of $\text{Li}_{11}\text{Nd}_{18}\text{Fe}_{4}\text{O}_{39}$. <i>Inorganic Chemistry</i> , 2012, 51, 8073-8082.	4.0	4
76	Nonisothermal crystallization kinetics and stability of leucite and kalsilite from $\text{K}_{2}\text{O}-\text{Al}_{2}\text{O}_{3}-\text{SiO}_{2}$ glasses. <i>Journal of the American Ceramic Society</i> , 2019, 102, 508-523.	3.8	4
77	The structure of sodium silicate glass from neutron diffraction and modeling of oxygen-oxygen correlations. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6155.	3.8	4
78	The environment of $\text{Fe}^{3+}/\text{Fe}^{2+}$ cations in a sodium borosilicate glass. <i>Journal of Commonwealth Law and Legal Education</i> , 2017, 58, 78-91.	0.5	4
79	Development of electrically conductive $\text{ZrO}_{2}-\text{CaO}-\text{Fe}_{2}\text{O}_{3}-\text{V}_{2}\text{O}_{5}$ glass and glass-ceramics as a new cathode active material for Na-ion batteries with high performance. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163309.	5.5	4
80	Conversion of $\text{Li}_{2}\text{FeSbO}_{5}$ to the Fe(III)/Fe(V) Phase LiFeSbO_{5} via Topochemical Lithium Extraction. <i>Chemistry of Materials</i> , 2022, 34, 2468-2475.	6.7	4
81	The Effect of γ -radiation on Mechanical Properties of Model UK Nuclear Waste Glasses. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1518, 41-46.	0.1	3
82	Effects of Residual Charge on the Performance of Electro-Adhesive Grippers. <i>Lecture Notes in Computer Science</i> , 2016, , 327-338.	1.3	3
83	The structure and thermochemistry of $\text{K}_{2}\text{CO}_{3}-\text{MgCO}_{3}$ glass. <i>Journal of Materials Research</i> , 2019, 34, 3377-3388.	2.6	3
84	The facile and additive-free synthesis of a cell-friendly iron(III)-glutathione complex. <i>Dalton Transactions</i> , 2020, 49, 10574-10579.	3.3	3
85	Antimony-modified soda-lime-silica glass: Towards low-cost radiation-resistant materials. <i>Journal of Non-Crystalline Solids</i> , 2022, 585, 121526.	3.1	3
86	Survey of Potential Glass Compositions for the Immobilisation of the UK's Separated Plutonium Stocks. <i>Materials Research Society Symposia Proceedings</i> , 2006, 985, 1.	0.1	2
87	The chemical suitability for recycling of zinc contaminated steelmaking by-product dusts: The case of the UK steel plant. <i>Resources, Conservation & Recycling Advances</i> , 2022, 14, 200073.	2.5	2
88	Glass Development for Vitrification of Wet Intermediate Level Waste (WILW) from Decommissioning of the Hinkley Point A Site. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1124, 1.	0.1	1
89	Evolutionary Learning for Soft Margin Problems: A Case Study on Practical Problems with Kernels. , 2020, , .		1
90	Mössbauer spectroscopy for optimising systems for environmental remediation. <i>Hyperfine Interactions</i> , 2014, 226, 499-508.	0.5	0

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91	^{57}Fe Mössbauer spectroscopy used to develop understanding of a diamond preservation index model. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	0
92	Synthesis and characterisation of $\text{Li}_{1-x}\text{RE}_x\text{M}_2\text{O}_7$: RE = Nd or Sm; M = Al, Co or Fe. <i>Dalton Transactions</i> , 2016, 45, 315-323.	3.3	0
93	Structure and magnetism of the Rh^{4+} -containing perovskite oxides $\text{La}_{0.5}\text{Sr}_{0.5}\text{Mn}_{0.5}\text{Rh}_{0.5}\text{O}_3$ and $\text{La}_{0.5}\text{Sr}_{0.5}\text{Fe}_{0.5}\text{Rh}_{0.5}\text{O}_3$. <i>Dalton Transactions</i> , 2020, 49, 11346-11353.	3.3	0
94	(Hydroxy)apatite on cement: insights into a new surface treatment. <i>Materials Advances</i> , 0, , .	5.4	0