

John Hanna

List of Publications by Year in descending order

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122
papers

3,897
citations

117625

34
h-index

149698

56
g-index

125
all docs

125
docs citations

125
times ranked

5567
citing authors

#	ARTICLE	IF	CITATIONS
1	Cobalt-containing spherical glass nanoparticles for therapeutic ion release. Journal of the American Ceramic Society, 2022, 105, 1765-1777.	3.8	8
2	Antibacterial, remineralising and matrix metalloproteinase inhibiting scandium-doped phosphate glasses for treatment of dental caries. Dental Materials, 2022, 38, 94-107.	3.5	4
3	Elucidation of the structural and optical properties of metal cation (Na ⁺ , K ⁺), Tj ETQq1 1 0.784314 rgBT / O nanocrystals. Journal of Materials Chemistry A, 2022, 10, 3562-3578.	10.3	18
4	Characterization of and Structural Insight into Struvite-K, MgKPO ₄ ·6H ₂ O, an Analogue of Struvite. Inorganic Chemistry, 2021, 60, 195-205.	4.0	29
5	Electrospun cotton-like wool-like silica/gelatin hybrids with covalent coupling. Journal of Sol-Gel Science and Technology, 2021, 97, 11-26.	2.4	4
6	Hydro-Expandable Calcium Phosphate Micro/Nano-Particles with Controllable Size and Morphology for Mechanical Ablation. ACS Applied Nano Materials, 2021, 4, 3877-3886.	5.0	3
7	3D printed silica-gelatin hybrid scaffolds of specific channel sizes promote collagen Type II, Sox9 and Aggrecan production from chondrocytes. Materials Science and Engineering C, 2021, 123, 111964.	7.3	22
8	The classification of 1D 'perovskites'. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 408-415.	1.1	8
9	A novel multinuclear solid-state NMR approach for the characterization of kidney stones. Magnetic Resonance, 2021, 2, 653-671.	1.9	4
10	Mapping of Na ⁺ C Bond Formation from a Series of Crystalline Peri-substituted Naphthalenes by Charge Density and Solid-State NMR Methodologies. Angewandte Chemie, 2021, 133, 24071.	2.0	0
11	Mapping of Na ⁺ C Bond Formation from a Series of Crystalline Peri-substituted Naphthalenes by Charge Density and Solid-State NMR Methodologies. Angewandte Chemie - International Edition, 2021, 60, 23878-23884.	13.8	4
12	Insight into the Partitioning and Clustering Mechanism of Rare-Earth Cations in Alkali Aluminoborosilicate Glasses. Chemistry of Materials, 2021, 33, 7944-7963.	6.7	6
13	The effect of organic cation dynamics on the optical properties in (PEA) ₂ (MA)[Pb ₂ I ₇] perovskite dimorphs. Journal of Materials Chemistry C, 2021, 9, 17050-17060.	5.5	2
14	Nanostructure of CaO-(Na ₂ O)-Al ₂ O ₃ -SiO ₂ -H ₂ O Gels Revealed by Multinuclear Solid-State Magic Angle Spinning and Multiple Quantum Magic Angle Spinning Nuclear Magnetic Resonance Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 1681-1694.	3.1	19
15	Ethylene methyl acrylate copolymer (EMA) assisted dispersion of few-layer graphene nanoplatelets (GNP) in poly(ethylene terephthalate) (PET). Polymer, 2020, 205, 122836.	3.8	19
16	Gallium and tin exchanged Y zeolites for glucose isomerisation and 5-hydroxymethyl furfural production. Applied Catalysis A: General, 2020, 605, 117798.	4.3	15
17	Improved Understanding of Atomic Ordering in Y ₄ Si _x Al ₂ O ₉ N _x Materials Using a Combined Solid-State NMR and Computational Approach. Journal of Physical Chemistry C, 2020, 124, 23976-23987.	3.1	2
18	CaproGlu: Multifunctional tissue adhesive platform. Biomaterials, 2020, 260, 120215.	11.4	19

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19	Performance Enhanced Light-Emitting Diodes Fabricated from Nanocrystalline CsPbBr ₃ with In Situ Zn ²⁺ Addition. ACS Applied Electronic Materials, 2020, 2, 4002-4011.	4.3	33
20	Investigating the structure–function relationship in triple cation perovskite nanocrystals for light-emitting diode applications. Journal of Materials Chemistry C, 2020, 8, 11805-11821.	5.5	27
21	Simultaneous MQMAS NMR Experiments for Two Half-Integer Quadrupolar Nuclei. Journal of Magnetic Resonance, 2020, 320, 106831.	2.1	2
22	Graphene Oxide Functionalized with 2-Ureido-4[1 <i>H</i>]-pyrimidinone for Production of Nacre-Like Films. ACS Applied Nano Materials, 2020, 3, 7161-7171.	5.0	8
23	Measuring multiple ¹⁷ O– ¹³ C J-couplings in naphthalaldehydic acid: a combined solid state NMR and density functional theory approach. Physical Chemistry Chemical Physics, 2020, 22, 3400-3413.	2.8	9
24	Electrospinning 3D bioactive glasses for wound healing. Biomedical Materials (Bristol), 2020, 15, 015014.	3.3	30
25	Cysteamine functionalised reduced graphene oxide modification of maleated poly(propylene). Polymer, 2020, 203, 122750.	3.8	7
26	Synergistic Voltage Adhesive Mechanisms with Alternating Electric Fields. Chemistry of Materials, 2020, 32, 2440-2449.	6.7	16
27	Heavy Water Additive in Formamidinium: A Novel Approach to Enhance Perovskite Solar Cell Efficiency. Advanced Materials, 2020, 32, e1907864.	21.0	51
28	Biodegradable zinc-containing mesoporous silica nanoparticles for cancer therapy. Materials Today Advances, 2020, 6, 100066.	5.2	30
29	<i>In Situ</i> Cross-Linking of Silane Functionalized Reduced Graphene Oxide and Low-Density Polyethylene. ACS Applied Polymer Materials, 2020, 2, 1897-1908.	4.4	9
30	Solid-State NMR, X-Ray Diffraction, and Theoretical Studies of Neutral Mononuclear Molecular Bis(triphenylphosphine)silver(I) Mono-Carboxylate and -Nitrate Systems. Australian Journal of Chemistry, 2020, 73, 556.	0.9	0
31	Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite. Materials, 2019, 12, 1814.	2.9	27
32	Antibacterial Copper-Doped Calcium Phosphate Glasses for Bone Tissue Regeneration. ACS Biomaterials Science and Engineering, 2019, 5, 6054-6062.	5.2	31
33	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. Chemistry of Materials, 2019, 31, 9003-9011.	6.7	111
34	Synthesis and Characterization of Crystalline NaY-Zeolite from Belitung Kaolin as Catalyst for n-Hexadecane Cracking. Crystals, 2019, 9, 404.	2.2	15
35	Crystallization study of rare earth and molybdenum containing nuclear waste glass ceramics. Journal of the American Ceramic Society, 2019, 102, 5149-5163.	3.8	11
36	Compound-specific ¹⁵ N values express differences in amino acid metabolism in plants of varying lignin content. Phytochemistry, 2019, 161, 130-138.	2.9	25

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37	Effects of manganese incorporation on the morphology, structure and cytotoxicity of spherical bioactive glass nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 382-392.	9.4	43
38	Ring-Opening Polymerization of Cyclic Phosphonates: Access to Inorganic Polymers with a P ^{>V</sup>O Main Chain. <i>Journal of the American Chemical Society</i>, 2019, 141, 2894-2899.}	13.7	13
39	Interstitial Boron Atoms in the Palladium Lattice of an Industrial Type of Nanocatalyst: Properties and Structural Modifications. <i>Journal of the American Chemical Society</i> , 2019, 141, 19616-19624.	13.7	43
40	New Structural Model of Hydrous Sodium Aluminosilicate Gels and the Role of Charge-Balancing Extra-Framework Al. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5673-5685.	3.1	75
41	A Combined 25 Mg Solid-State NMR and Ab Initio DFT Approach to Probe the Local Structural Differences in Magnesium Acetate Phases Mg(CH ₃ COO) ₂ ·nH ₂ O (n=0,1,4). <i>ChemPhysChem</i> , 2018, 19, 1722-1732.		
42	Preservation of Nuclear Spin Order by Precipitation. <i>ChemPhysChem</i> , 2018, 19, 40-44.	2.1	14
43	Direct solid state NMR observation of the ¹⁰⁵ Pd nucleus in inorganic compounds and palladium metal systems. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26734-26743.	2.8	16
44	Synthesis and Characterization of Platinum Nanoparticle Catalysts Capped with Isolated Zinc Species in SBA-15 Channels: The Wall Effect. <i>ACS Applied Nano Materials</i> , 2018, 1, 6603-6612.	5.0	7
45	Pushing the limits of sensitivity and resolution for natural abundance ⁴³ Ca NMR using ultra-high magnetic field (35.2 T). <i>Chemical Communications</i> , 2018, 54, 9591-9594.	4.1	22
46	Crystal Chemistry of Vanadium-Bearing Ellestadite Waste Forms. <i>Inorganic Chemistry</i> , 2018, 57, 9122-9132.	4.0	6
47	Electromagnetic Functionalization of Wide-Bandgap Dielectric Oxides by Boron Interstitial Doping. <i>Advanced Materials</i> , 2018, 30, e1802025.	21.0	5
48	Facile silane functionalization of graphene oxide. <i>Nanoscale</i> , 2018, 10, 16231-16242.	5.6	86
49	The Crystal Structure of Ba ₃ Nb ₂ O ₈ Revisited: A Neutron Diffraction and Solid-State NMR Study. <i>Inorganic Chemistry</i> , 2017, 56, 2653-2661.	4.0	2
50	Crystal chemical characterization of mullite-type aluminum borate compounds. <i>Journal of Solid State Chemistry</i> , 2017, 247, 173-187.	2.9	16
51	Oxygen Insertion Reactions within the One-Dimensional Channels of Phases Related to FeSb ₂ O ₄ . <i>Inorganic Chemistry</i> , 2017, 56, 594-607.	4.0	14
52	Phosphate content affects structure and bioactivity of sol-gel silicate bioactive glasses. <i>International Journal of Applied Glass Science</i> , 2017, 8, 372-382.	2.0	23
53	All-optical hyperpolarization of electron and nuclear spins in diamond. <i>Physical Review B</i> , 2017, 96, .	3.2	11
54	Topotactic Fluorine Insertion into the Channels of FeSb ₂ O ₄ -Related Materials. <i>Inorganic Chemistry</i> , 2017, 56, 10078-10089.	4.0	12

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73	Highly flexible silica/chitosan hybrid scaffolds with oriented pores for tissue regeneration. Journal of Materials Chemistry B, 2015, 3, 7560-7576.	5.8	78
74	How the Method of Synthesis Governs the Local and Global Structure of Zinc Aluminum Layered Double Hydroxides. Journal of Physical Chemistry C, 2015, 119, 27695-27707.	3.1	81
75	A multinuclear solid state NMR spectroscopic study of the structural evolution of disordered calcium silicate sol-gel biomaterials. Physical Chemistry Chemical Physics, 2015, 17, 2540-2549.	2.8	25
76	Furthering the understanding of silicate-substitution in β -tricalcium phosphate: An X-ray diffraction, X-ray fluorescence and solid-state nuclear magnetic resonance study. Acta Biomaterialia, 2014, 10, 1443-1450.	8.3	20
77	Silica-gelatin hybrids for tissue regeneration: inter-relationships between the process variables. Journal of Sol-Gel Science and Technology, 2014, 69, 288-298.	2.4	61
78	The role of the chemical composition of monetite on the synthesis and properties of β -tricalcium phosphate. Materials Science and Engineering C, 2014, 34, 123-129.	7.3	35
79	Complexes of Copper(I) Thiocyanate with Monodentate Phosphine and Pyridine Ligands and the π -Donor Diphenyl(2-pyridyl)phosphine. European Journal of Inorganic Chemistry, 2014, 2014, 6104-6116.	2.0	16
80	Ambient and high-pressure synthesis, composition, and crystal structure of β -mullites. Crystal Research and Technology, 2014, 49, 21-31.	1.3	8
81	O -vs. N -protonation of 1-dimethylaminonaphthalene-8-ones: formation of a $peric$ C bond or a hydrogen bond to the π -electron density of a carbonyl group. CrystEngComm, 2014, 16, 8363-8374.	2.6	15
82	Poly(γ -glutamic acid)/Silica Hybrids with Calcium Incorporated in the Silica Network by Use of a Calcium Alkoxide Precursor. Chemistry - A European Journal, 2014, 20, 8149-8160.	3.3	47
83	Chemical characterisation and fabrication of chitosan-silica hybrid scaffolds with 3-glycidoxypropyl trimethoxysilane. Journal of Materials Chemistry B, 2014, 2, 668-680.	5.8	109
84	Characterising local environments in high energy density Li-ion battery cathodes: a combined NMR and first principles study of $LiFe_xCo_{1-x}PO_4$. Journal of Materials Chemistry A, 2014, 2, 11948-11957.	10.3	50
85	Effect of Synthesis Parameters on the Electrochemical Properties of High-Surface-Area Mesoporous Titanium Oxide with Polypyrrole Nanowires in the Pores. ChemElectroChem, 2014, 1, 2153-2162.	3.4	3
86	Deoxygenation of Graphene Oxide: Reduction or Cleaning?. Chemistry of Materials, 2013, 25, 3580-3588.	6.7	198
87	Characterisation of platinum-based fuel cell catalyst materials using ^{195}Pt wide-line solid state NMR. Physical Chemistry Chemical Physics, 2013, 15, 17195.	2.8	39
88	A multinuclear solid state NMR, density functional theory and X-Ray diffraction study of hydrogen bonding in Group I hydrogen dibenzoates. CrystEngComm, 2013, 15, 8823.	2.6	24
89	Whewellite, $CaC_2O_4 \cdot nH_2O$: structural study by a combined NMR, crystallography and modelling approach. CrystEngComm, 2013, 15, 8840.	2.6	40
90	Magnesium analogues of aluminosilicate inorganic polymers (geopolymers) from magnesium minerals. Journal of Materials Science, 2013, 48, 1787-1793.	3.7	33

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91	Bioactivity in silica/poly(¹³ C-glutamic acid) sol-gel hybrids through calcium chelation. <i>Acta Biomaterialia</i> , 2013, 9, 7662-7671.	8.3	58
92	Neutron diffraction and ¹¹ B solid state NMR studies of the crystal structure of B-doped mullite. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013, , 130521045435006.	0.8	3
93	Models for incomplete nucleophilic attack on a protonated carbonyl group and electron-deficient alkenes: salts and zwitterions from 1-dimethylamino-naphthalene-8-carbaldehyde. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7763.	2.8	11
94	Mechanochemical and solution synthesis, and crystal structures and IR and solid-state (CPMAS) NMR spectroscopy of some bis(triphenylphosphine)silver(I) mono- and di-hydrogen citrate systems. <i>Dalton Transactions</i> , 2012, 41, 5409.	3.3	15
95	Calcium sulfate-phosphate composites with enhanced water resistance. <i>Journal of Materials Chemistry</i> , 2012, 22, 4837.	6.7	4
96	Role of pH and temperature on silica network formation and calcium incorporation into sol-gel derived bioactive glasses. <i>Journal of Materials Chemistry</i> , 2012, 22, 1613-1619.	6.7	59
97	Synthesis and characterisation of oxyanion-doped manganites for potential application as SOFC cathodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 8287.	6.7	44
98	An examination of the calcium and strontium site distribution in bioactive glasses through isomorphic neutron diffraction, X-ray diffraction, EXAFS and multinuclear solid state NMR. <i>Journal of Materials Chemistry</i> , 2012, 22, 22212.	6.7	40
99	Mechanochemical and solution synthesis, X-ray structure and IR and ³¹ P solid state NMR spectroscopic studies of copper(I) thiocyanate adducts with bulky monodentate tertiary phosphine ligands. <i>Dalton Transactions</i> , 2012, 41, 7513.	3.3	32
100	The Question of cis versus trans Configuration in Octahedral Metal Diketonates: An In-Depth Investigation on Diorganobis(4-acyl-5-pyrazolonato)tin(IV) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1369-1379.	2.0	12
101	Unexpected Outcomes of the Oxidation of (Pentafluorophenyl)triphenylphosphane-gold(I) The Question of cis versus trans Configuration in Octahedral Metal Diketonates: An In-Depth Investigation on Diorganobis(4-acyl-5-pyrazolonato)tin(IV) Complexes Chelating C4-Bound Imidazolylidene Complexes through Oxidative Addition of Imidazolium Salts to Palladium(0) Ruthenium Acetate Complexes as Versatile P. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, .	2.0	0
102	High-resolution solid state NMR experiments for the characterization of calcium phosphate biomaterials and biominerals. <i>Journal of Materials Research</i> , 2011, 26, 2355-2368.	2.6	21
103	Solution and mechanochemical syntheses, and spectroscopic and structural studies in the silver(I) (bi-)carbonate: triphenylphosphine system. <i>Dalton Transactions</i> , 2011, 40, 7210.	3.3	32
104	Protonic defects and water incorporation in Si and Ge-based apatite ionic conductors. <i>Journal of Materials Chemistry</i> , 2010, 20, 2766.	6.7	36
105	Structural and Spectroscopic Characterisation of Linearly Coordinated Gold(I) Tribenzylphosphane Complexes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2044-2053.	2.0	7
106	A ⁹³ Nb Solid-State NMR and Density Functional Theory Study of Four- and Six-Coordinate Niobate Systems. <i>Chemistry - A European Journal</i> , 2010, 16, 3222-3239.	3.3	56
107	Recent technique developments and applications of solid state NMR in characterising inorganic materials. <i>Solid State Nuclear Magnetic Resonance</i> , 2010, 38, 1-18.	2.3	79
108	Structure and Phase Transformations in the Titanosilicate, Sitanakite. The Importance of Water. <i>Chemistry of Materials</i> , 2010, 22, 4222-4231.	6.7	14

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109	Ion exchange in the charge-balancing sites of aluminosilicate inorganic polymers. <i>Journal of Materials Chemistry</i> , 2010, 20, 10234.	6.7	90
110	Synthesis of bioactive class II poly(^l -glutamic acid)/silica hybrids for bone regeneration. <i>Journal of Materials Chemistry</i> , 2010, 20, 8952.	6.7	79
111	Tailoring the nanoporosity of sol-gel derived bioactive glass using trimethylethoxysilane. <i>Journal of Materials Chemistry</i> , 2010, 20, 1489.	6.7	9
112	Microcrystalline Hexagonal Tungsten Bronze. 1. Basis of Ion Exchange Selectivity for Cesium and Strontium. <i>Inorganic Chemistry</i> , 2009, 48, 5648-5662.	4.0	34
113	IR Spectroscopy of Two Polymorphs of Copper(I) Thiocyanate and of Complexes of Copper(I) Thiocyanate with Thiourea and Ethylenethiourea. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2009, 64, 1478-1486.	0.7	19
114	Sol-gel matrices for controlled release: from macro to nano using emulsion polymerisation. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 46, 393-409.	2.4	49
115	A High-Resolution ⁴³ Ca Solid-State NMR Study of the Calcium Sites of Hydroxyapatite. <i>Journal of the American Chemical Society</i> , 2008, 130, 2412-2413.	13.7	54
116	²⁹ Si, ²⁷ Al, ¹ H and ²³ Na MAS NMR Study of the Bonding Character in Aluminosilicate Inorganic Polymers. <i>Applied Magnetic Resonance</i> , 2007, 32, 663-689.	1.2	126
117	A Theoretical Study of 51V Electric Field Gradient Tensors in Pyrovanadates and Metavanadates. <i>Applied Magnetic Resonance</i> , 2007, 32, 691-708.	1.2	12
118	Crystal structures and vibrational and solid-state (CPMAS) NMR spectroscopy of some bis(triphenylphosphine)silver(I) sulfate, selenate and phosphate systems. <i>Dalton Transactions RSC</i> , 2001, , 20-28.	2.3	39
119	Disorder in the lactato group of (lactato-O, ²⁻)bis(triphenylphosphine-P)silver(I) corroborated by ³¹ P two-dimensional CPCOSY NMR. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000, 56, 24-25.	0.4	4
120	Crystal structures and vibrational and solid-state (CPMAS) NMR spectroscopic studies in the tris(triphenylphosphine)-copper(I) and -silver(I) formate systems. <i>Dalton Transactions RSC</i> , 2000, , 753-762.	2.3	31
121	Crystal Structure, Infrared and Solid State CP MAS NMR Characterization of [(PPh ₃) ₂ AgO ₂ CH] and of [(PPh ₃) ₂ AgO ₂ CH].cndot.2HCO ₂ H, a Complex of the H-Bonded [H ₂ (HCO ₂) ₃]- Species. <i>The Journal of Physical Chemistry</i> , 1995, 99, 3909-3917.	2.9	20
122	Nuclear spin coupling effects in phosphorus-31 MAS NMR spectra of solid bis(triphenylphosphine)(phenylcyanamido)copper(I) complexes. <i>The Journal of Physical Chemistry</i> , 1992, 96, 7560-7567.	2.9	31