

David G Reid

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,198
citations

430874

18
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

2287
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel 3-D spacer-all fibre piezoelectric textiles for energy harvesting applications. Energy and Environmental Science, 2014, 7, 1670-1679.	30.8	234
2	Tuning hardness in calcite by incorporation of amino acids. Nature Materials, 2016, 15, 903-910.	27.5	183
3	The curious case of (caffeine)·(benzoic acid): how heteronuclear seeding allowed the formation of an elusive cocrystal. Chemical Science, 2013, 4, 4417.	7.4	115
4	A model for a solvent-free synthetic organic research laboratory: click-mechanosynthesis and structural characterization of thioureas without bulk solvents. Green Chemistry, 2012, 14, 2462.	9.0	80
5	NMR Spectroscopy of Native and in Vitro Tissues Implicates PolyADP Ribose in Biomineralization. Science, 2014, 344, 742-746.	12.6	78
6	Poly(ADP-Ribose) Links the DNA Damage Response and Biomineralization. Cell Reports, 2019, 27, 3124-3138.e13.	6.4	58
7	Glycation changes molecular organization and charge distribution in type I collagen fibrils. Scientific Reports, 2020, 10, 3397.	3.3	56
8	Proline provides site-specific flexibility for in vivo collagen. Scientific Reports, 2018, 8, 13809.	3.3	40
9	Analysis of commercial proanthocyanidins. Part 4: Solid state ¹³ C NMR as a tool for in situ analysis of proanthocyanidin tannins, in heartwood and bark of quebracho and acacia, and related species. Phytochemistry, 2013, 94, 243-248.	2.9	38
10	Apatite in Kidney Stones is a Molecular Composite With Glycosaminoglycans and Proteins: Evidence From Nuclear Magnetic Resonance Spectroscopy, and Relevance to Randall's Plaque, Pathogenesis and Prophylaxis. Journal of Urology, 2011, 185, 725-730.	0.4	33
11	Lipids in biocalcification: contrasts and similarities between intimal and medial vascular calcification and bone by NMR. Journal of Lipid Research, 2012, 53, 1569-1575.	4.2	30
12	Hydroxyproline Ring Pucker Causes Frustration of Helix Parameters in the Collagen Triple Helix. Scientific Reports, 2015, 5, 12556.	3.3	30
13	Alternative synthetic methodology for amide formation in the post-synthetic modification of Ti-MIL125-NH ₂ . CrystEngComm, 2013, 15, 9368.	2.6	28
14	Rationalization of the Color Properties of Fluorescein in the Solid State: A Combined Computational and Experimental Study. Chemistry - A European Journal, 2016, 22, 10065-10073.	3.3	24
15	Fullerene-based one-dimensional crystalline nanopolymer formed through topochemical transformation of the parent nanowire. Physical Review B, 2010, 81, .	3.2	23
16	Citrate Occurs Widely in Healthy and Pathological Apatitic Biomineral: Mineralized Articular Cartilage, and Intimal Atherosclerotic Plaque and Apatitic Kidney Stones. Calcified Tissue International, 2013, 93, 253-260.	3.1	20
17	Effect of Fluorination on Molecular Conformation in the Solid State: Tuning the Conformation of Cocrystal Formers. Crystal Growth and Design, 2011, 11, 972-981.	3.0	19
18	Characterization of the phosphatic mineral of the barnacle <i>Balanus crenatus</i> at atomic level by solid-state nuclear magnetic resonance: comparison with other phosphatic biominerals. Journal of the Royal Society Interface, 2012, 9, 1510-1516.	3.4	16

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19	Preparation of highly and generally enriched mammalian tissues for solid state NMR. Journal of Biomolecular NMR, 2015, 63, 119-123.	2.8	16
20	Essential but sparse collagen hydroxylysyl post-translational modifications detected by DNP NMR. Chemical Communications, 2018, 54, 12570-12573.	4.1	13
21	Solid state NMR - An indispensable tool in organic-inorganic biocomposite characterization; refining the structure of octacalcium phosphate composites with the linear metabolic di-acids succinate and adipate. Solid State Nuclear Magnetic Resonance, 2018, 95, 1-5.	2.3	13
22	Mechanical adaptation of brachiopod shells via hydration-induced structural changes. Nature Communications, 2021, 12, 5383.	12.8	9
23	A new glycation product ϵ -norpronyl-lysine, ϵ -TM and direct characterization of cross linking and other glycation adducts: NMR of model compounds and collagen. Bioscience Reports, 2014, 34, .	2.4	8
24	Solid state NMR of isotope labelled murine fur: a powerful tool to study atomic level keratin structure and treatment effects. Journal of Biomolecular NMR, 2016, 66, 93-98.	2.8	7
25	Hydrophobicity predicts in vivo ^{19}F magnetic resonance detectability of fluorinated psychiatric drugs: simple test for likely success in clinical pharmacokinetic studies. Drug Development Research, 2008, 69, 279-283.	2.9	5