

# Danielle Laurencin

## List of Publications by Year in descending order

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93  
papers

3,467  
citations

126907

33  
h-index

155660

55  
g-index

103  
all docs

103  
docs citations

103  
times ranked

4769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnesium incorporation into hydroxyapatite. <i>Biomaterials</i> , 2011, 32, 1826-1837.	11.4	296
2	Bonding-induced thermal conductance enhancement at inorganic heterointerfaces using Ånanomolecular monolayers. <i>Nature Materials</i> , 2013, 12, 118-122.	27.5	223
3	Phosphonate coupling molecules for the control of surface/interface properties and the synthesis of nanomaterials. <i>Dalton Transactions</i> , 2013, 42, 12569.	3.3	195
4	A rare example of a porous Ca-MOF for the controlled release of biologically active NO. <i>Chemical Communications</i> , 2013, 49, 7773.	4.1	138
5	New perspectives on calcium environments in inorganic materials containing calciumâ€“oxygen bonds: A combined computationalâ€“experimental <sup>43</sup> Ca NMR approach. <i>Chemical Physics Letters</i> , 2008, 464, 42-48.	2.6	83
6	Recent NMR developments applied to organicâ€“inorganic materials. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2014, 77, 1-48.	7.5	78
7	Reactivity of gold nanoparticles towards N-heterocyclic carbenes. <i>Dalton Transactions</i> , 2014, 43, 5978.	3.3	77
8	NMR Investigation of the Role of Osteocalcin and Osteopontin at the Organicâ€“Inorganic Interface in Bone. <i>Langmuir</i> , 2013, 29, 13873-13882.	3.5	72
9	Absence of the lysophosphatidic acid receptor LPA1 results in abnormal bone development and decreased bone mass. <i>Bone</i> , 2011, 49, 395-403.	2.9	71
10	Probing the calcium and sodium local environment in bones and teeth using multinuclear solid state NMR and X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1081-1091.	2.8	70
11	<sup>87</sup> Sr Solid-State NMR as a Structurally Sensitive Tool for the Investigation of Materials: Antiosteoporotic Pharmaceuticals and Bioactive Glasses. <i>Journal of the American Chemical Society</i> , 2012, 134, 12611-12628.	13.7	68
12	Development of <sup>43</sup> Ca solid state NMR spectroscopy as a probe of local structure in inorganic and molecular materials. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013, 68, 1-40.	7.5	68
13	A new organometallic heteropolytungstate related to [Sb <sub>2</sub> W <sub>22</sub> O <sub>74</sub> (OH) <sub>2</sub> ] <sup>12-</sup> : synthesis and structural characterisation of the bis-{Ru(p-cymene)} <sub>2</sub> <sup>+</sup> -containing anion [Sb <sub>2</sub> W <sub>20</sub> O <sub>70</sub> {Ru(p-cymene)} <sub>2</sub> ] <sup>10-</sup> . <i>Chemical Communications</i> , 2005, , 5524.	4.1	67
14	Natural abundance <sup>43</sup> Ca solidâ€“state NMR characterisation of hydroxyapatite: identification of the two calcium sites. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 347-350.	1.9	60
15	Incorporation of iodates into hydroxyapatites: a new approach for the confinement of radioactive iodine. <i>Journal of Materials Chemistry</i> , 2011, 21, 17609.	6.7	59
16	Ultrasmlal NHC-coated gold nanoparticles obtained through solvent free thermolysis of organometallic Au(I) complexes. <i>Dalton Transactions</i> , 2014, 43, 15713-15718.	3.3	59
17	Interfacial Ca <sup>2+</sup> environments in nanocrystalline apatites revealed by dynamic nuclear polarization enhanced <sup>43</sup> Ca NMR spectroscopy. <i>Nature Communications</i> , 2017, 8, 14104.	12.8	55
18	A High-Resolution <sup>43</sup> 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

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19	Implementation of High Resolution <sup>43</sup> Ca Solid State NMR Spectroscopy: Toward the Elucidation of Calcium Sites in Biological Materials. <i>Journal of the American Chemical Society</i> , 2009, 131, 13430-13440.	13.7	54
20	Experimental and Theoretical Study of the Regiospecific Coordination of Rulland OslIFragments on the Lacunary Polyoxometalate [±PW11O39]7-. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6345-6355.	2.5	52
21	Influence of Magnesium Substitution on the Basic Properties of Hydroxyapatites. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24317-24327.	3.1	52
22	Porous Porphyrin-Based Organosilica Nanoparticles for NIR Two-Photon Photodynamic Therapy and Gene Delivery in Zebrafish. <i>Advanced Functional Materials</i> , 2018, 28, 1800235.	14.9	50
23	A biocompatible calcium bisphosphonate coordination polymer: towards a metal-linker synergistic therapeutic effect?. <i>CrystEngComm</i> , 2013, 15, 9899.	2.6	49
24	Synthesis and reactivity of {Ru(p-cymene)} <sub>2</sub> +derivatives of [Nb <sub>6</sub> O <sub>19</sub> ] <sup>8-</sup> : a rational approach towards fluxional organometallic derivatives of polyoxometalates. <i>Dalton Transactions</i> , 2007, , 1334-1345.	3.3	47
25	Unleashing the Potential of <sup>17</sup> Oâ€¦NMR Spectroscopy Using Mechanochemistry. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6803-6807.	13.8	47
26	Framework Fluxionality of Organometallic Oxides: Synthesis, Crystal Structure, EXAFS, and DFT Studies on[{Ru(Î-6-arene)} <sub>4</sub> Mo <sub>4</sub> O <sub>16</sub> ] Complexes. <i>Chemistry - A European Journal</i> , 2004, 10, 208-217.	3.3	45
27	Solid State NMR Investigation of Intact Human Bone Quality: Balancing Issues and Insight into the Structure at the Organicâ€“Mineral Interface. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6320-6331.	3.1	42
28	Whewellite, CaC <sub>2</sub> O <sub>4</sub> â€¦H <sub>2</sub> O: structural study by a combined NMR, crystallography and modelling approach. <i>CrystEngComm</i> , 2013, 15, 8840.	2.6	40
29	A Solid-State NMR Study of Lead and Vanadium Substitution into Hydroxyapatite. <i>Journal of the American Chemical Society</i> , 2009, 131, 5145-5152.	13.7	37
30	Intercalation of Benzoxaborolate Anions in Layered Double Hydroxides: Toward Hybrid Formulations for Benzoxaborole Drugs. <i>Chemistry of Materials</i> , 2015, 27, 1242-1254.	6.7	37
31	The Effect of Surface Modification of Aligned Poly-L-Lactic Acid Electrospun Fibers on Fiber Degradation and Neurite Extension. <i>PLoS ONE</i> , 2015, 10, e0136780.	2.5	36
32	NMR and EPR Characterization of Functionalized Nanodiamonds. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12408-12422.	3.1	36
33	Experimental and Theoretical Study of the Reactivity of Gold Nanoparticles Towards Benzimidazoleâ€“ylidene Ligands. <i>Chemistry - A European Journal</i> , 2016, 22, 10446-10458.	3.3	36
34	Synthesis and Characterization of Crystalline Structures Based on Phenylboronate Ligands Bound to Alkaline Earth Cations. <i>Inorganic Chemistry</i> , 2011, 50, 7802-7810.	4.0	35
35	Two-dimensional <sup>43</sup> Caâ€“ <sup>1</sup> H correlation solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 35, 32-36.	2.3	34
36	From crystalline to amorphous calcium pyrophosphates: A solid state Nuclear Magnetic Resonance perspective. <i>Acta Biomaterialia</i> , 2016, 31, 348-357.	8.3	33

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37	Durability testing of an iodate-substituted hydroxyapatite designed for the conditioning of 129 I. <i>Journal of Nuclear Materials</i> , 2017, 484, 324-331.	2.7	31
38	Gemcitabine Delivery and Photodynamic Therapy in Cancer Cells via Porphyrin-Ethylene-Based Periodic Mesoporous Organosilica Nanoparticles. <i>ChemNanoMat</i> , 2018, 4, 46-51.	2.8	31
39	Immobilization of iodine into a hydroxyapatite structure prepared by cementation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20923-20932.	10.3	30
40	Electrochemical Mg alloying properties along the Sb <sub>1-x</sub> Bi <sub>x</sub> solid solution. <i>Electrochimica Acta</i> , 2018, 259, 276-283.	5.2	30
41	Controlled Anchoring of Iron Oxide Nanoparticles on Polymeric Nanofibers: Easy Access to Core@Shell Organic-Inorganic Nanocomposites for Magneto-Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9519-9529.	8.0	29
42	Organometallic polyoxometalates: synthesis and structural analysis of (1-6-arene) ruthenium-containing polyoxomolybdates. <i>Journal of Molecular Structure</i> , 2003, 656, 67-77.	3.6	27
43	A combined experimental-computational study of benzoxaborole crystal structures. <i>CrystEngComm</i> , 2014, 16, 4999.	2.6	27
44	Drug-Polymer Electrostatic Complexes as New Structuring Agents for the Formation of Drug-Loaded Ordered Mesoporous Silica. <i>Langmuir</i> , 2015, 31, 12839-12844.	3.5	27
45	Surface modification of calcium carbonate with phosphonic acids. <i>Journal of Materials Chemistry</i> , 2012, 22, 1212-1218.	6.7	26
46	Structural study of calcium phosphonates: a combined synchrotron powder diffraction, solid-state NMR and first-principle calculations approach. <i>CrystEngComm</i> , 2013, 15, 8763.	2.6	26
47	Enhanced stability and local structure in biologically relevant amorphous materials containing pyrophosphate. <i>Journal of Materials Chemistry</i> , 2011, 21, 18783.	6.7	25
48	Investigation of the local environment of iodate in hydroxyapatite by combination of X-ray absorption spectroscopy and DFT modeling. <i>RSC Advances</i> , 2014, 4, 14700-14707.	3.6	25
49	An Ab Initio Quantum Chemical Investigation of <sup>43</sup> Ca NMR Interaction Parameters for the Ca <sup>2+</sup> Sites in Organic Complexes and in Metalloproteins. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9807-9813.	2.5	24
50	Experimental and Computational Study of the Framework Fluxionality of Organometallic Derivatives of Polyoxometalates: Analysis of the Effect of the Metal and of the Solvent. <i>Organometallics</i> , 2009, 28, 3140-3151.	2.3	24
51	Unveiling the Structure and Reactivity of Fatty-Acid Based (Nano)materials Thanks to Efficient and Scalable <sup>17</sup> O and <sup>18</sup> O-Isotopic Labeling Schemes. <i>Journal of the American Chemical Society</i> , 2020, 142, 21068-21081.	13.7	24
52	Direct <sup>17</sup> O Isotopic Labeling of Oxides Using Mechanochemistry. <i>Inorganic Chemistry</i> , 2020, 59, 13050-13066.	4.0	24
53	Pushing the limits of sensitivity and resolution for natural abundance <sup>43</sup> Ca NMR using ultra-high magnetic field (35.2 T). <i>Chemical Communications</i> , 2018, 54, 9591-9594.	4.1	22
54	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

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55	Synthesis and characterization of carboxystyryl end-functionalized poly(3-hexylthiophene)/TiO <sub>2</sub> hybrids in view of photovoltaic applications. <i>Synthetic Metals</i> , 2012, 162, 1615-1622.	3.9	21
56	Insights into new calcium phosphosilicate xerogels using an advanced characterization methodology. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3548-3555.	3.1	20
57	Boronate Ligands in Materials: Determining Their Local Environment by Using a Combination of IR/Solid-State NMR Spectroscopies and DFT Calculations. <i>Chemistry - A European Journal</i> , 2013, 19, 880-891.	3.3	19
58	Synthesis of TiO <sub>2</sub> "Poly(3-hexylthiophene) Hybrid Particles through Surface-Initiated Kumada Catalyst-Transfer Polycondensation. <i>Langmuir</i> , 2014, 30, 11340-11347.	3.5	19
59	Bis-benzoxaboroles: Design, Synthesis, and Biological Evaluation as Carbonic Anhydrase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 1205-1210.	2.8	19
60	Improvement of the Oxidative Stability of Nanodiamonds by Surface Phosphorylation. <i>Chemistry of Materials</i> , 2013, 25, 2051-2055.	6.7	18
61	A soft-chemistry approach to the synthesis of amorphous calcium ortho/pyrophosphate biomaterials of tunable composition. <i>Acta Biomaterialia</i> , 2020, 103, 333-345.	8.3	18
62	Relationship between structure, fluxionality and racemization activity in organometallic derivatives of polyoxometalates. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 367-371.	1.8	17
63	Theoretical Study of the Relative Stabilities of the $[XW_{11}O_{39}]^{m-}$ Lacunary Polyoxometalates (X) $4j\epsilon TQq1 170.7843$		
64	Formulation of benzoxaborole drugs in PLLA: from materials preparation to in vitro release kinetics and cellular assays. <i>Journal of Materials Chemistry B</i> , 2016, 4, 257-272.	5.8	17
65	A multinuclear NMR perspective on the complexation between bisboronic acids and bisbenzoxaboroles with <i>cis</i> -diols. <i>New Journal of Chemistry</i> , 2018, 42, 2815-2823.	2.8	16
66	Recent directions in the solid-state NMR study of synthetic and natural calcium phosphates. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 107, 101663.	2.3	15
67	Connecting ruthenium substituted Keggin-type tungstophosphates by oxotungstic bridges: Evidence for the steric effect of {RuL <sub>3</sub> } <sup>2+</sup> (L <sub>3</sub> = 1,3,5-tri- <i>i</i> -C <sub>6</sub> -arene, (DMSO) <sub>3</sub> ) fragments. <i>Comptes Rendus Chimie</i> , 2012, 15, 135-142.	0.5	14
68	Surface Functionalization of Detonation Nanodiamonds by Phosphonic Dichloride Derivatives. <i>Langmuir</i> , 2014, 30, 9239-9245.	3.5	14
69	Biomimetic apatite-based composite materials obtained by spark plasma sintering (SPS): physicochemical and mechanical characterizations. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 223.	3.6	14
70	Unleashing the Potential of <sup>17</sup> O NMR Spectroscopy Using Mechanochemistry. <i>Angewandte Chemie</i> , 2017, 129, 6907-6911.	2.0	14
71	Development of a new family of monolithic calcium (pyro)phosphate glasses by soft chemistry. <i>Acta Biomaterialia</i> , 2016, 41, 320-327.	8.3	13
72	French Studies on the Development of Potential Conditioning Matrices for Iodine 129. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1744, 15-20.	0.1	11

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73	Looking into the dynamics of molecular crystals of ibuprofen and terephthalic acid using <sup>17</sup> O and <sup>2</sup> H nuclear magnetic resonance analyses. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 975-990.	1.9	11
74	From <i>Operando</i> Raman Mechanochemistry to <i>“NMR Crystallography”</i> : Understanding the Structures and Interconversion of Zn-Terephthalate Networks Using Selective <sup>17</sup> O-Labeling. <i>Chemistry of Materials</i> , 2022, 34, 2292-2312.	6.7	11
75	Adsorption of benzoxaboroles on hydroxyapatite phases. <i>Acta Biomaterialia</i> , 2016, 41, 342-350.	8.3	10
76	Labeling and Probing the Silica Surface Using Mechanochemistry and <sup>17</sup> O <i>“NMR Spectroscopy”</i> . <i>Chemistry - A European Journal</i> , 2021, 27, 12574-12588.	3.3	10
77	Coordination Polymers Based on Alkylboronate Ligands: Synthesis, Characterization, and Computational Modelling. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 1182-1191.	2.0	9
78	Molecular complexes and main-chain organometallic polymers based on Janus bis(carbenes) fused to metalloporphyrins. <i>Dalton Transactions</i> , 2020, 49, 7005-7014.	3.3	9
79	Cost-efficient and user-friendly <sup>17</sup> O/ <sup>18</sup> O labeling procedures of fatty acids using mechanochemistry. <i>Chemical Communications</i> , 2021, 57, 6812-6815.	4.1	9
80	Stacking Versatility in Alkali-Mixed Honeycomb Layered NaK <sub>2</sub> TeO <sub>6</sub> . <i>Inorganic Chemistry</i> , 2021, 60, 14310-14317.	4.0	9
81	Coordination Networks Based on Boronate and Benzoxaborolate Ligands. <i>Crystals</i> , 2016, 6, 48.	2.2	8
82	<sup>87</sup> Sr, <sup>119</sup> Sn, <sup>127</sup> I Single and <sup>1</sup> H/ <sup>19</sup> F <i>“Double Resonance Solid-State NMR Experiments: Application to Inorganic Materials and Nanobuilding Blocks”</i> . <i>ChemistrySelect</i> , 2016, 1, 4509-4519.	1.5	8
83	Advances in the synthesis and structure of <i>±</i> -canaphite: a multitool and multiscale study. <i>CrystEngComm</i> , 2020, 22, 3130-3143.	2.6	8
84	A <sup>43</sup> Ca nuclear magnetic resonance perspective on octacalcium phosphate and its hybrid derivatives. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 1048-1061.	1.9	8
85	<i>Operando</i> acoustic analysis: a valuable method for investigating reaction mechanisms in mechanochemistry. <i>Chemical Science</i> , 2022, 13, 6328-6334.	7.4	8
86	New Layered Polythiophene-Silica Composite Through the Self-Assembly and Polymerization of Thiophene-Based Silylated Molecular Precursors. <i>Molecules</i> , 2018, 23, 2510.	3.8	5
87	Insight into the local environment of magnesium and calcium in low-coordination-number organo-complexes using <sup>25</sup> Mg and <sup>43</sup> Ca solid-state NMR: a DFT study. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 208-218.	0.5	4
88	A novel multinuclear solid-state NMR approach for the characterization of kidney stones. <i>Magnetic Resonance</i> , 2021, 2, 653-671.	1.9	4
89	Long-term <i>in vivo</i> performances of polylactide/iron oxide nanoparticles core-shell fibrous nanocomposites as MRI-visible magneto-scaffolds. <i>Biomaterials Science</i> , 2021, 9, 6203-6213.	5.4	4
90	Advanced Solid State NMR Techniques for the Investigation of the Organic-Mineral Interfaces in Biomaterials. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1236, 1.	0.1	2

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91	Synthesis, characterization and modeling of self-assembled porphyrin nanorods. Journal of Porphyrins and Phthalocyanines, 2019, 23, 1346-1354.	0.8	2
92	Recent advances in solid-state nuclear magnetic resonance spectroscopy of quadrupolar nuclei. Magnetic Resonance in Chemistry, 2021, 59, 851-852.	1.9	1
93	Innentitelbild: Unleashing the Potential of <sup>17</sup> Oâ€¦NMR Spectroscopy Using Mechanochemistry (Angew. Chem. 24/2017). Angewandte Chemie, 2017, 129, 6780-6780.	2.0	0