

# Claire Roiland

## List of Publications by Year in descending order

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52  
papers

1,310  
citations

361413

20  
h-index

361022

35  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2046  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of Ga-Sb-Se glasses by combination of <sup>77</sup> Se NMR and neutron diffraction experiments with molecular dynamics. <i>Journal of Non-Crystalline Solids</i> , 2021, 557, 120574.	3.1	3
2	Uncatalyzed Formation of Polyaminoboranes from Diisopropylaminoborane and Primary Amines: a Kinetically Controlled Polymerization Reaction. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 2417-2426.	4.3	8
3	Study of the Ge <sub>20</sub> Te <sub>80-x</sub> Se <sub>x</sub> glassy structures by combining solid state NMR, vibrational spectroscopies and DFT modelling. <i>Journal of Solid State Chemistry</i> , 2021, 297, 122062.	2.9	11
4	Luminescence properties of lanthanide complexes-based molecular alloys. <i>Inorganica Chimica Acta</i> , 2020, 501, 119309.	2.4	10
5	Combined NMR and X-ray diffraction study of structural aspects, dynamics and charge ordering mechanism in Li <sub>x</sub> VOPO <sub>4</sub> ·2H <sub>2</sub> O intercalation compounds. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 104, 101623.	2.3	0
6	Ultrastable phonon frequencies in <i>β</i> -quartz-type BPO <sub>4</sub> at high temperature. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	3
7	Anomalous Dynamics of a Nanoconfined Gas in a Soft Metal-Organic Framework. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1698-1708.	4.6	5
8	Rationalization of solid-state NMR multi-pulse decoupling strategies: Coupling of spin $I = 1/2$ and half-integer quadrupolar nuclei. <i>Journal of Magnetic Resonance</i> , 2019, 303, 48-56.	2.1	3
9	Multi-Emissive Lanthanide-Based Coordination Polymers for Potential Application as Luminescent Bar-Codes. <i>Inorganic Chemistry</i> , 2019, 58, 2659-2668.	4.0	43
10	Risedronate Effects on the In Vivo Bioactive Glass Behavior: Nuclear Magnetic Resonance and Histopathological Studies. <i>BioMed Research International</i> , 2019, 2019, 1-16.	1.9	3
11	Strong Solid-State Luminescence Enhancement in Supramolecular Assemblies of Polyoxometalate and Aggregation-Induced Emission-Active Phospholium. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1642-1646.	3.3	15
12	Direct Integration of Red-NIR Emissive Ceramic-like A <sub>n</sub> M <sub>6</sub> X <sub>8</sub> X <sub>6</sub> Metal Cluster Salts in Organic Copolymers Using Supramolecular Interactions. <i>Chemistry - A European Journal</i> , 2018, 24, 4825-4829.	3.3	20
13	Solventless and Metal-Free Synthesis of High-Molecular-Mass Polyaminoboranes from Diisopropylaminoborane and Primary Amines. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1519-1522.	13.8	40
14	Luminescent liquid crystalline hybrid materials by embedding octahedral molybdenum cluster anions with soft organic shells derived from tribenzo[18]crown-6. <i>Dalton Transactions</i> , 2018, 47, 14340-14351.	3.3	5
15	Lord of The Crowns: A New Precious in the Kingdom of Clustomesogens. <i>Angewandte Chemie</i> , 2018, 130, 11866-11870.	2.0	2
16	Lord of The Crowns: A New Precious in the Kingdom of Clustomesogens. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11692-11696.	13.8	20
17	Synthesis, crystal structure of the ammonium vanadyl oxalatophosphite and its controlled conversion into catalytic vanadyl phosphates. <i>Journal of Solid State Chemistry</i> , 2017, 253, 73-77.	2.9	3
18	Impurities enhance caking in lactose powder. <i>Journal of Food Engineering</i> , 2017, 198, 91-97.	5.2	20

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19	Risedronate adsorption on bioactive glass surface for applications as bone biomaterial. Applied Surface Science, 2016, 367, 205-213.	6.1	9
20	Structure of arsenic selenide glasses by Raman and <sup>77</sup> Se NMR with a multivariate curve resolution approach. Journal of Non-Crystalline Solids, 2016, 447, 322-328.	3.1	9
21	Multinuclear NMR as a tool for studying local order and dynamics in CH <sub>3</sub> NH <sub>3</sub> PbX <sub>3</sub> (X = Cl, Br, I) hybrid perovskites. Physical Chemistry Chemical Physics, 2016, 18, 27133-27142.	2.8	78
22	A solid state highly emissive Cu metallacycle: promotion of cuprophilic interactions at the excited states. Chemical Communications, 2016, 52, 11370-11373.	4.1	59
23	From Phase Separation to Nanocrystallization in Fluorosilicate Glasses: Structural Design of Highly Luminescent Glass-Ceramics. Journal of Physical Chemistry C, 2016, 120, 17726-17732.	3.1	63
24	Structure and Dynamics of Heteroprotein Coacervates. Langmuir, 2016, 32, 7821-7828.	3.5	20
25	Thermoanalytical properties and structure of (As <sub>2</sub> Se <sub>3</sub> ) <sub>100-x</sub> (Sb <sub>2</sub> Se <sub>3</sub> ) <sub>x</sub> glasses by Raman and <sup>77</sup> Se MAS NMR using a multivariate curve resolution approach. Journal of Non-Crystalline Solids, 2016, 432, 426-431.	3.1	7
26	Study of bioactive glass ceramic for use as bone biomaterial in vivo: Investigation by nuclear magnetic resonance and histology. Ceramics International, 2016, 42, 4827-4836.	4.8	5
27	Structural study by Raman spectroscopy and <sup>77</sup> Se NMR of GeSe <sub>4</sub> and 80GeSe <sub>2</sub> -20Ga <sub>2</sub> Se <sub>3</sub> glasses synthesized by mechanical milling. Journal of Non-Crystalline Solids, 2016, 431, 16-20.	3.1	6
28	Processing and characterization of novel borophosphate glasses and fibers for medical applications. Journal of Non-Crystalline Solids, 2015, 425, 52-60.	3.1	45
29	From metallic cluster-based ceramics to nematic hybrid liquid crystals: a double supramolecular approach. Chemical Communications, 2015, 51, 3774-3777.	4.1	38
30	Structure of Arsenic Selenide Glasses Studied by NMR: Selenium Chain Length Distributions and the Flory Model. Journal of Physical Chemistry C, 2015, 119, 11852-11857.	3.1	16
31	Impact of Te on the structure and <sup>77</sup> Se NMR spectra of Se-rich Ge-Te-Se glasses: a combined experimental and computational investigation. Physical Chemistry Chemical Physics, 2015, 17, 29020-29026.	2.8	10
32	Recrystallized S-Layer Protein of a Probiotic Propionibacterium: Structural and Nanomechanical Changes upon Temperature or pH Shifts Probed by Solid-State NMR and AFM. Langmuir, 2015, 31, 199-208.	3.5	18
33	Influence of P <sub>2</sub> O <sub>5</sub> and Al <sub>2</sub> O <sub>3</sub> content on the structure of erbium-doped borosilicate glasses and on their physical, thermal, optical and luminescence properties. Materials Research Bulletin, 2015, 63, 41-50.	5.2	18
34	Long-term natural physical aging in glassy Ge <sub>5</sub> Se <sub>95</sub> as probed by combined NMR and PAL spectroscopy. Journal of Non-Crystalline Solids, 2014, 392-393, 1-5.	3.1	4
35	<sup>71</sup> Ga NMR in chalcogenide and chalcogen-halide glasses. Journal of Non-Crystalline Solids, 2014, 383, 216-221.	3.1	7
36	A combined <sup>77</sup> Se NMR and molecular dynamics contribution to the structural understanding of the chalcogenide glasses. Physical Chemistry Chemical Physics, 2014, 16, 17975-17982.	2.8	19

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37	Chitosan effects on glass matrices evaluated by biomaterial. MAS-NMR and biological investigations. Korean Journal of Chemical Engineering, 2013, 30, 1775-1783.	2.7	16
38	DFT-assisted structure determination of $\hat{1}\pm 1$ - and $\hat{1}\pm 2$ -VOPO4: new insights into the understanding of the catalytic performances of vanadium phosphates. Dalton Transactions, 2013, 42, 8124.	3.3	16
39	$^{77}\text{Se}$ solid-state NMR of $\text{As}_2\text{Se}_3$ , $\text{As}_4\text{Se}_4$ and $\text{As}_4\text{Se}_3$ crystals: a combined experimental and computational study. Physical Chemistry Chemical Physics, 2013, 15, 6284.	2.8	15
40	Coordination Polymers Based on Heterohexanuclear Rare Earth Complexes: Toward Independent Luminescence Brightness and Color Tuning. Inorganic Chemistry, 2013, 52, 6720-6730.	4.0	82
41	Extended Investigations on Luminescent $\text{Cs}_2[\text{Mo}_6\text{Br}_{14}]\text{SiO}_2$ Nanoparticles: Physico-Structural Characterizations and Toxicity Studies. Journal of Physical Chemistry C, 2013, 117, 20154-20163.	3.1	68
42	Soil Calcium Availability Influences Shell Ecophenotype Formation in the Sub-Antarctic Land Snail, <i>Notodiscus hookeri</i> . PLoS ONE, 2013, 8, e84527.	2.5	19
43	Fragile-strong behavior in the $\text{As}_x\text{Se}_{1-x}$ glasses in relation to structural dimensionality. Physical Review B, 2012, 85, 044202.	3.2	59
44	Initial stage of physical ageing in network glasses. Philosophical Magazine, 2012, 92, 4182-4193.	1.6	11
45	Novel $\text{TaPO}_5 \times \text{N}_2/3$ oxynitrides. Journal of Alloys and Compounds, 2012, 513, 530-538.	5.5	1
46	Investigation of the Interface in Silica-Encapsulated Liposomes by Combining Solid State NMR and First Principles Calculations. Journal of the American Chemical Society, 2011, 133, 16815-16827.	13.7	69
47	Characterization of the disordered phosphate network in $\text{CaO-P}_2\text{O}_5$ glasses by $^{31}\text{P}$ solid-state NMR and Raman spectroscopies. Journal of Non-Crystalline Solids, 2011, 357, 1636-1646.	3.1	34
48	$^{77}\text{Se}$ solid-state NMR investigations on $\text{As}_x\text{Se}_{1-x}$ glasses using CPMG acquisition under MAS. Solid State Nuclear Magnetic Resonance, 2011, 40, 72-77.	2.3	26
49	Correlation between structure and physical properties of chalcogenide glasses in the $\text{As}_x\text{Se}_{1-x}$ system. Physical Review B, 2010, 82, 044202.	3.2	117
50	Structure and dynamics of oxide melts and glasses: A view from multinuclear and high temperature NMR. Journal of Non-Crystalline Solids, 2008, 354, 249-254.	3.1	59
51	Triple-quantum correlation NMR experiments in solids using J-couplings. Journal of Magnetic Resonance, 2006, 179, 49-57.	2.1	36
52	In situ evaluation of interfacial affinity in $\text{CeO}_2$ based hybrid nanoparticles by pulsed field gradient NMR. Chemical Communications, 2005, , 1019.	4.1	37