Christian Bonhomme

List of Publications by Year
in descending order

62	3,190	186265 28	149698 56
papers	citations	h-index	g-index

69	69	69	3664
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	17 O solidâ€state NMR at ultrahigh magnetic field of 35.2ÂT: Resolution of inequivalent oxygen sites in different phases of MOF MILâ€53(Al). Magnetic Resonance in Chemistry, 2021, 59, 940-950.	1.9	9
2	A ⁴³Ca nuclear magnetic resonance perspective on octacalcium phosphate and its hybrid derivatives. Magnetic Resonance in Chemistry, 2021, 59, 1048-1061.	1.9	8
3	A novel multinuclear solid-state NMR approach for the characterization of kidney stones. Magnetic Resonance, 2021, 2, 653-671.	1.9	4
4	Denoising applied to spectroscopies â€“ Part II: Decreasing computation time. Applied Spectroscopy Reviews, 2020, 55, 173-196.	6.7	8
5	A soft-chemistry approach to the synthesis of amorphous calcium ortho/pyrophosphate biomaterials of tunable composition. Acta Biomaterialia, 2020, 103, 333-345.	8.3	18
6	Higher Magnetic Fields, Finer MOF Structural Information: ¹⁷O Solid-State NMR at 35.2 T. Journal of the American Chemical Society, 2020, 142, 14877-14889.	13.7	47
7	Investigating CaOx Crystal Formation in the Absence and Presence of Polyphenols under Microfluidic Conditions in Relation with Nephrolithiasis. Crystal Growth and Design, 2020, 20, 7683-7693.	3.0	6
8	Direct ¹⁷O Isotopic Labeling of Oxides Using Mechanochemistry. Inorganic Chemistry, 2020, 59, 13050-13066.	4.0	24
9	Morphology of Calcium Oxalate Polyhydrates: A Quantum Chemical and Computational Study. Crystal Growth and Design, 2020, 20, 3807-3815.	3.0	17
10	Recent directions in the solid-state NMR study of synthetic and natural calcium phosphates. Solid State Nuclear Magnetic Resonance, 2020, 107, 101663.	2.3	15
11	Advances in the synthesis and structure of Î±-canaphite: a multitool and multiscale study. CrystEngComm, 2020, 22, 3130-3143.	2.6	8
12	Denoising applied to spectroscopies â€“ part I: concept and limits. Applied Spectroscopy Reviews, 2019, 54, 602-630.	6.7	18
13	Pushing the limits of sensitivity and resolution for natural abundance ⁴³Ca NMR using ultra-high magnetic field (35.2 T). Chemical Communications, 2018, 54, 9591-9594.	4.1	22
14	Vibrational Signatures of Calcium Oxalate Polyhydrates. ChemistrySelect, 2018, 3, 8801-8812.	1.5	27
15	Interfacial Ca2+ environments in nanocrystalline apatites revealed by dynamic nuclear polarization enhanced 43Ca NMR spectroscopy. Nature Communications, 2017, 8, 14104.	12.8	55
16	Unleashing the Potential of ¹⁷Oâ€…NMR Spectroscopy Using Mechanochemistry. Angewandte Chemie - International Edition, 2017, 56, 6803-6807.	13.8	47
17	Insight into the local environment of magnesium and calcium in low-coordination-number organo-complexes using ²⁵Mg and ⁴³Ca solid-state NMR: a DFT study. Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 208-218.	0.5	4
18	Influence of Ionic Additives on Triclinic Calcium Pyrophosphate Dihydrate Precipitation. Crystal Growth and Design, 2017, 17, 37-50.	3.0	10

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19	Hydroxyapatites: Key Structural Questions and Answers from Dynamic Nuclear Polarization. Analytical Chemistry, 2017, 89, 10201-10207.	6.5	23
20	Innentitelbild: Unleashing the Potential of ¹⁷Oâ€…NMR Spectroscopy Using Mechanochemistry (Angew. Chem. 24/2017). Angewandte Chemie, 2017, 129, 6780-6780.	2.0	0
21	Unleashing the Potential of ¹⁷Oâ€…NMR Spectroscopy Using Mechanochemistry. Angewandte Chemie, 2017, 129, 6907-6911.	2.0	14
22	Coordination Networks Based on Boronate and Benzoxaborolate Ligands. Crystals, 2016, 6, 48.	2.2	8
23	Structural elucidation of silica present in kidney stones coming from Burkina Faso. Comptes Rendus Chimie, 2016, 19, 1573-1579.	0.5	12
24	Hyperoxaluria is related to whewellite and hypercalciuria to weddellite: What happens when crystalline conversion occurs?. Comptes Rendus Chimie, 2016, 19, 1492-1503.	0.5	38
25	⁸⁷Sr, ¹¹⁹Sn, ¹²⁷I Single and {¹H/¹⁹F}â€Double Resonance Solidâ€State NMR Experiments: Application to Inorganic Materials and Nanobuilding Blocks. ChemistrySelect, 2016, 1, 4509-4519.	1.5	8
26	Multinuclear Solid-State NMR Investigation of Hexaniobate and Hexatantalate Compounds. Inorganic Chemistry, 2016, 55, 5946-5956.	4.0	19
27	From crystalline to amorphous calcium pyrophosphates: A solid state Nuclear Magnetic Resonance perspective. Acta Biomaterialia, 2016, 31, 348-357.	8.3	33
28	Coordination Polymers Based on Alkylboronate Ligands: Synthesis, Characterization, and Computational Modelling. European Journal of Inorganic Chemistry, 2015, 2015, 1182-1191.	2.0	9
29	Exploring the Molecular Structure of Imidazoliumâ€“Silicaâ€Based Nanoparticle Networks by Combining Solidâ€State NMR Spectroscopy and Firstâ€Principles Calculations. Chemistry - A European Journal, 2014, 20, 15188-15196.	3.3	13
30	Recent NMR developments applied to organicâ€“inorganic materials. Progress in Nuclear Magnetic Resonance Spectroscopy, 2014, 77, 1-48.	7.5	78
31	Denoising NMR time-domain signal by singular-value decomposition accelerated by graphics processing units. Solid State Nuclear Magnetic Resonance, 2014, 61-62, 28-34.	2.3	21
32	Whewellite, CaC2O4â‹…H2O: structural study by a combined NMR, crystallography and modelling approach. CrystEngComm, 2013, 15, 8840.	2.6	40
33	Boronate Ligands in Materials: Determining Their Local Environment by Using a Combination of IR/Solidâ€State NMR Spectroscopies and DFT Calculations. Chemistry - A European Journal, 2013, 19, 880-891.	3.3	19
34	A rare example of a porous Ca-MOF for the controlled release of biologically active NO. Chemical Communications, 2013, 49, 7773.	4.1	138
35	Structural study of calcium phosphonates: a combined synchrotron powder diffraction, solid-state NMR and first-principle calculations approach. CrystEngComm, 2013, 15, 8763.	2.6	26
36	First-Principles Calculation of NMR Parameters Using the Gauge Including Projector Augmented Wave Method: A Chemistâ€™s Point of View. Chemical Reviews, 2012, 112, 5733-5779.	47.7	446

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37	⁸⁷Sr Solid-State NMR as a Structurally Sensitive Tool for the Investigation of Materials: Antiosteoporotic Pharmaceuticals and Bioactive Glasses. Journal of the American Chemical Society, 2012, 134, 12611-12628.	13.7	68
38	Microfabricated Inserts for Magic Angle Coil Spinning (MACS) Wireless NMR Spectroscopy. PLoS ONE, 2012, 7, e42848.	2.5	27
39	Solid State NMR Investigation of Intact Human Bone Quality: Balancing Issues and Insight into the Structure at the Organicâ€“Mineral Interface. Journal of Physical Chemistry C, 2012, 116, 6320-6331.	3.1	42
40	High-resolution solid state NMR experiments for the characterization of calcium phosphate biomaterials and biominerals. Journal of Materials Research, 2011, 26, 2355-2368.	2.6	21
41	Synthesis and Characterization of Crystalline Structures Based on Phenylboronate Ligands Bound to Alkaline Earth Cations. Inorganic Chemistry, 2011, 50, 7802-7810.	4.0	35
42	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
43	Magnesium incorporation into hydroxyapatite. Biomaterials, 2011, 32, 1826-1837.	11.4	296
44	New perspectives in the PAW/GIPAW approach: JP-O-Si coupling constants, antisymmetric parts of shift tensors and NQR predictions. Magnetic Resonance in Chemistry, 2010, 48, S86-S102.	1.9	42
45	DFT-NMR Investigation and ⁵¹V 3QMAS Experiments for Probing Surface OH Ligands and the Hydrogen-Bond Network in a Polyoxovanadate Cluster: The Case of Cs₄[H₂V₁₀O₂₈]Â·4H₂O. Journal of the American Chemical Society, 2010, 132, 4653-4668.	13.7	32
46	Nanostructuring of Hybrid Silicas through a Selfâ€Recognition Process. Chemistry - A European Journal, 2009, 15, 5002-5005.	3.3	17
47	Implementation of High Resolution ⁴³Ca Solid State NMR Spectroscopy: Toward the Elucidation of Calcium Sites in Biological Materials. Journal of the American Chemical Society, 2009, 131, 13430-13440.	13.7	54
48	GIPAW (gauge including projected augmented wave) and local dynamics in 13C and 29Si solid state NMR: the study case of silsesquioxanes (RSiO1.5)8. Physical Chemistry Chemical Physics, 2009, 11, 6953.	2.8	27
49	Calcium phosphates: First-principles calculations vs. solid-state NMR experiments. Comptes Rendus Chimie, 2008, 11, 398-406.	0.5	12
50	New perspectives on calcium environments in inorganic materials containing calciumâ€“oxygen bonds: A combined computationalâ€“experimental 43Ca NMR approach. Chemical Physics Letters, 2008, 464, 42-48.	2.6	83
51	Organosilicas based on purineâ€“pyrimidinebase pair assemblies: a solid state NMR point of view. Journal of Materials Chemistry, 2008, 18, 392-399.	6.7	32
52	Advanced Solid State NMR Techniques for the Characterization of Solâ€“Gel-Derived Materials. Accounts of Chemical Research, 2007, 40, 738-746.	15.6	97
53	First Principles Calculations of NMR Parameters in Biocompatible Materials Science: The Case Study of Calcium Phosphates, Î²- and Î³-Ca(PO3)2. Combination with MAS-J Experiments. Chemistry of Materials, 2007, 19, 6367-6369.	6.7	41
54	Solid-State NMR Characterization of the Surfactantâ^'Silica Interface in Templated Silicas:Â Acidic versus Basic Conditions. Chemistry of Materials, 2007, 19, 1343-1354.	6.7	98

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55	Studies of silicophosphate derivatives by 31Pâ†'29Si CP MAS NMR. Solid State Nuclear Magnetic Resonance, 2005, 27, 242-246.	2.3	37
56	Combined First-Principles Computational and Experimental Multinuclear Solid-State NMR Investigation of Amino Acids. Journal of Physical Chemistry A, 2005, 109, 6960-6969.	2.5	169
57	Advances in Characterisation Methods for Sol-Gel Derived Materials: High Resolution Solid State Nuclear Magnetic Resonance. Journal of Sol-Gel Science and Technology, 2004, 31, 9-17.	2.4	17
58	Combinedab initio computational and experimental multinuclear solid-state magnetic resonance study of phenylphosphonic acid. Magnetic Resonance in Chemistry, 2004, 42, 445-452.	1.9	88
59	The first direct probing of porosity on supported mesoporous silica thin films through hyperpolarised129Xe NMR. Chemical Communications, 2002, , 2476-2477.	4.1	41
60	Highly Porous Polyhedral Silsesquioxane Polymers. Synthesis and Characterization. Journal of the American Chemical Society, 1998, 120, 8380-8391.	13.7	373
61	Characterisation of solâ€"gel derived titanium oxopolymers: first evidence of Tiâ€"OH groups through1Hâ€"17O CP NMR experiments. Journal of Materials Chemistry, 1998, 8, 985-989.	6.7	28
62	Studies of octameric vinylsilasesquioxane by carbon-13 and silicon-29 cross polarization magic angle spinning and inversion recovery cross polarization nuclear magnetic resonance spectroscopy. Journal of the Chemical Society Dalton Transactions, 1997, , 1617-1626.	1.1	51