

Jerry C C Chan

List of Publications by Year in descending order

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112
times ranked

4650
citing authors

#	ARTICLE	IF	CITATIONS
1	Superresolution Imaging of Photochromic Acylhydrazone Moieties on Amyloid Nanofibrils: Implications for Photoswitchable Probes. ACS Applied Nano Materials, 2022, 5, 1734-1739.	5.0	4
2	Site specific NMR characterization of abeta-40 oligomers cross seeded by abeta-42 oligomers. Chemical Science, 2022, 13, 8526-8535.	7.4	8
3	Solubility product of amorphous magnesium carbonate. Journal of the Chinese Chemical Society, 2021, 68, 476-481.	1.4	11
4	Faster magic angle spinning reveals cellulose conformations in woods. Chemical Communications, 2021, 57, 4110-4113.	4.1	15
5	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie, 2021, 133, 19293-19303.	2.0	6
6	Aufdeckung der Rolle von Hydrogencarbonat-Ionen bei der Bildung von Calciumcarbonat im nahezu neutralen pH-Bereich. Angewandte Chemie, 2021, 133, 16843-16850.	2.0	0
7	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie - International Edition, 2021, 60, 19144-19154.	13.8	11
8	Uncovering the Role of Bicarbonate in Calcium Carbonate Formation at Near-Neutral pH. Angewandte Chemie - International Edition, 2021, 60, 16707-16713.	13.8	22
9	Formation and Near-Infrared Emission of CsPb ₃ Nanoparticles Embedded in Cs ₄ Pb ₆ Crystals. ACS Applied Materials & Interfaces, 2021, 13, 34742-34751.	8.0	8
10	Frontispiece: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
11	Frontispiz: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie, 2021, 133, .	2.0	0
12	Manifold of self-assembly of a <i>de novo</i> designed peptide: amyloid fibrils, peptide bundles, and fractals. RSC Advances, 2020, 10, 29510-29515.	3.6	3
13	Ambient Formation of Spherulites of Mg-Calcite in an Aqueous Lipid Solution through the Interplay between Multiple Pathways. Journal of Physical Chemistry C, 2020, 124, 20538-20546.	3.1	7
14	Formation of nano-magnesite in the calcareous spicules prepared under ambient conditions. Chemical Communications, 2020, 56, 6925-6928.	4.1	2
15	Characterization of Phosphorus Species in Human Dentin by Solid-State NMR. Molecules, 2020, 25, 196.	3.8	9
16	Anhydrous amorphous calcium carbonate (ACC) is structurally different from the transient phase of biogenic ACC. Chemical Communications, 2019, 55, 6946-6949.	4.1	7
17	Preparation and Structural Characterization of Free-Standing Octacalcium-Phosphate-Rich Thin Films. Journal of Physical Chemistry B, 2018, 122, 2082-2089.	2.6	2
18	Fibrillization of β -Amyloid Peptides via Chemically Modulated Pathway. Chemistry - A European Journal, 2018, 24, 4939-4943.	3.3	2

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19	Zinc ion rapidly induces toxic, off-pathway amyloid- β^2 oligomers distinct from amyloid- β^2 derived diffusible ligands in Alzheimer's disease. <i>Scientific Reports</i> , 2018, 8, 4772.	3.3	104
20	Preparation of fibril nuclei of beta-amyloid peptides in reverse micelles. <i>Chemical Communications</i> , 2018, 54, 10459-10462.	4.1	30
21	A novel sol-gel-derived calcium silicate cement with short setting time for application in endodontic repair of perforations. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 261-271.	6.7	48
22	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. <i>Solid State Nuclear Magnetic Resonance</i> , 2018, 95, 1-5.	2.3	13
23	Structural characterization of fluoride species in shark teeth. <i>Chemical Communications</i> , 2017, 53, 3838-3841.	4.1	6
24	Chiral Morphology of Calcium Carbonate Mineralized in Agarose Gel. <i>Journal of the Chinese Chemical Society</i> , 2017, 64, 246-249.	1.4	3
25	Chemical distinctions between Stradivari's maple and modern tonewood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 27-32.	7.1	36
26	High-Magnesium Calcite Mesocrystals: Formation in Aqueous Solution under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16202-16206.	13.8	18
27	High-Magnesium Calcite Mesocrystals: Formation in Aqueous Solution under Ambient Conditions. <i>Angewandte Chemie</i> , 2017, 129, 16420-16424.	2.0	4
28	Study of Binding Interaction between Pif80 Protein Fragment and Aragonite. <i>Scientific Reports</i> , 2016, 6, 30883.	3.3	22
29	Lipids influence the proton pump activity of photosynthetic protein embedded in nanodiscs. <i>RSC Advances</i> , 2016, 6, 88300-88305.	3.6	12
30	Is Mg-stabilized amorphous calcium carbonate a homogeneous mixture of amorphous magnesium carbonate and amorphous calcium carbonate?. <i>Chemical Communications</i> , 2016, 52, 11527-11530.	4.1	30
31	Aggregation of Beta-Amyloid Peptides Proximal to Zwitterionic Lipid Bilayers. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1967-1971.	3.3	7
32	Structural Characterization of Mg-Stabilized Amorphous Calcium Carbonate by Mg-25 Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7225-7233.	3.1	40
33	Tuning the Photocycle Kinetics of Bacteriorhodopsin in Lipid Nanodiscs. <i>Biophysical Journal</i> , 2015, 109, 1899-1906.	0.5	24
34	Characterization of the Crystallization Pathway of Calcium Phosphate in Liposomes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12022-12027.	3.1	20
35	Probing the Spatial Organization of Bacteriochlorophyll <i>a</i> by Solid-State Nuclear Magnetic Resonance. <i>Biochemistry</i> , 2014, 53, 5515-5525.	2.5	14
36	Purification of recombinant nacre-associated mineralization protein AP7 fused with maltose-binding protein. <i>Protein Expression and Purification</i> , 2014, 100, 26-32.	1.3	2

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37	Hydrogen Bond Formation between Citrate and Phosphate Ions in Spherulites of Fluorapatite. <i>Langmuir</i> , 2013, 29, 11681-11686.	3.5	15
38	Depletion of Water Molecules Near the End Stage of Steric Zipper Formation. <i>Journal of the Chinese Chemical Society</i> , 2013, 60, 794-800.	1.4	1
39	Constant time tensor correlation experiments by non-gamma-encoded recoupling pulse sequences. <i>Journal of Chemical Physics</i> , 2012, 137, 164201.	3.0	1
40	Synthesis and catalytic activity of amino-functionalized SBA-15 materials with controllable channel lengths and amino loadings. <i>Journal of Materials Chemistry</i> , 2012, 22, 2233-2243.	6.7	64
41	Measurements of ¹³ C Multiple-Quantum Coherences in Amyloid Fibrils under Magic-Angle Spinning. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7162-7167.	2.6	2
42	Asymmetric Crystal Morphology of Apatite Induced by the Chirality of Dicarboxylate Additives. <i>Crystal Growth and Design</i> , 2012, 12, 547-549.	3.0	18
43	Calcium-43 NMR Studies of Polymorphic Transition of Calcite to Aragonite. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14295-14301.	2.6	25
44	Time displacement rotational echo double resonance: Heteronuclear dipolar recoupling with suppression of homonuclear interaction under fast magic-angle spinning. <i>Journal of Magnetic Resonance</i> , 2012, 214, 315-318.	2.1	3
45	Phase transformation of calcium phosphates in the presence of glutamic acid. <i>Canadian Journal of Chemistry</i> , 2011, 89, 885-891.	1.1	7
46	Steric Zipper Formed by Hydrophobic Peptide Fragment of Syrian Hamster Prion Protein. <i>Biochemistry</i> , 2011, 50, 6815-6823.	2.5	32
47	Solid-State NMR Techniques for the Structural Determination of Amyloid Fibrils. <i>Topics in Current Chemistry</i> , 2011, 306, 47-88.	4.0	9
48	Sulfonic acid-functionalized platelet SBA-15 materials as efficient catalysts for biodiesel synthesis. <i>Green Chemistry</i> , 2011, 13, 2920.	9.0	80
49	Efficient Energy and Electron Transfer between Donor and Acceptor Chromophores in Aluminophosphate Hybrid Materials. <i>Journal of the Chinese Chemical Society</i> , 2010, 57, 539-546.	1.4	12
50	Molecular Structure of Amyloid Fibrils Formed by Residues 127 to 147 of the Human Prion Protein. <i>Chemistry - A European Journal</i> , 2010, 16, 5492-5499.	3.3	20
51	Solid-state NMR study of geopolymer prepared by sol-gel chemistry. <i>Journal of Solid State Chemistry</i> , 2010, 183, 3017-3022.	2.9	33
52	Rotational echo double resonance without proton decoupling under fast spinning condition. <i>Solid State Nuclear Magnetic Resonance</i> , 2010, 38, 58-61.	2.3	2
53	Internal symmetry of basic elements in symmetry-based recoupling sequences under magic-angle spinning. <i>Journal of Chemical Physics</i> , 2010, 133, 114503.	3.0	7
54	Uniform, Spherical Bridged Polysilsesquioxane Nano- and Microparticles by a Nonemulsion Method. <i>Chemistry of Materials</i> , 2010, 22, 5244-5250.	6.7	29

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55	Solid-state P-31 NMR study of octacalcium phosphate incorporated with succinate. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6692.	2.8	33
56	Morphology Control of Fluorapatite Crystallites by Citrate Ions. <i>Crystal Growth and Design</i> , 2010, 10, 4240-4242.	3.0	74
57	Heteronuclear dipolar recoupling of half-integer quadrupole nuclei under fast magic angle spinning. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 110-117.	2.3	9
58	Compensated DRAMA sequence for homonuclear dipolar recoupling under magic-angle spinning. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 177-181.	2.3	4
59	An alkaline route to prepare hydrothermally stable cubic Pm3n mesoporous silica using CTEA template. <i>Microporous and Mesoporous Materials</i> , 2009, 121, 41-51.	4.4	15
60	Heteronuclear dipolar recoupling in multiple-spin system under fast magic-angle spinning. <i>Journal of Magnetic Resonance</i> , 2009, 197, 96-99.	2.1	12
61	Enantioselective addition of diethylzinc to benzaldehyde over mesoporous SBA-15 functionalized with chiral proline derivatives. <i>Applied Catalysis A: General</i> , 2009, 359, 96-107.	4.3	19
62	Effect of phase inversion of radiofrequency pulses on the recoupling of anisotropic NMR interactions under magic-angle spinning. <i>Chemical Physics Letters</i> , 2009, 470, 308-312.	2.6	0
63	Structural Model of Rat Dentin Revisited. <i>Chemistry of Materials</i> , 2009, 21, 2583-2585.	6.7	41
64	Solid-state NMR study of bioactive binary borosilicate glasses. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2628-2633.	4.0	11
65	Solid-state P-31 NMR study of the formation of hydroxyapatite in the presence of glutaric acid. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 330-334.	1.9	19
66	Adsorption of a Statherin Peptide Fragment on the Surface of Nanocrystallites of Hydroxyapatite. <i>Journal of the American Chemical Society</i> , 2008, 130, 2862-2868.	13.7	62
67	Steric Zipper of the Amyloid Fibrils Formed by Residues 109-122 of the Syrian Hamster Prion Protein. <i>Journal of Molecular Biology</i> , 2008, 378, 1142-1154.	4.2	53
68	A Facile Route to Synthesizing Functionalized Mesoporous SBA-15 Materials with Platelet Morphology and Short Mesochannels. <i>Chemistry of Materials</i> , 2008, 20, 3906-3916.	6.7	161
69	Luminescent Properties and Structure Investigation of Y ₃ Al ₅ O ₁₂ :Ce Phosphors with Si Addition. <i>Journal of the Electrochemical Society</i> , 2007, 154, P16.	2.9	20
70	Characterization of the Phosphate Units in Rat Dentin by Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2007, 19, 6088-6094.	6.7	31
71	Double-quantum filtered heteronuclear correlation spectroscopy under magic angle spinning. <i>Solid State Nuclear Magnetic Resonance</i> , 2007, 31, 55-61.	2.3	14
72	Determination of chemical shift anisotropies of unresolved carbonyl sites by C-13 detection under magic-angle spinning. <i>Journal of Magnetic Resonance</i> , 2007, 187, 352-356.	2.1	9

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73	Propylsulfonic Acid-Functionalized Mesoporous Silica Synthesized by in Situ Oxidation of Thiol Groups under Template-Free Condition. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2156-2164.	3.1	59
74	Determination of the backbone torsion ψ angle by tensor correlation of chemical shift anisotropy and heteronuclear dipole-dipole interaction. <i>Solid State Nuclear Magnetic Resonance</i> , 2007, 31, 72-81.	2.3	8
75	Frequency selective polarization transfer based on multiple chemical shift precession. <i>Chemical Physics Letters</i> , 2006, 419, 144-148.	2.6	11
76	Synthesis, characterization and catalytic activity of ordered SBA-15 materials containing high loading of diamine functional groups. <i>Microporous and Mesoporous Materials</i> , 2006, 95, 57-65.	4.4	69
77	Template-free synthesis of mesoporous phenylsulfonic acid functionalized silica. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 321-330.	4.4	36
78	Spectral editing based on selective excitation and Lee-Goldburg cross-polarization under magic angle spinning. <i>Solid State Nuclear Magnetic Resonance</i> , 2006, 29, 272-277.	2.3	28
79	Solid-State NMR Study of the Transformation of Octacalcium Phosphate to Hydroxyapatite: A Mechanistic Model for Central Dark Line Formation. <i>Journal of the American Chemical Society</i> , 2006, 128, 6909-6918.	13.7	157
80	Efficient spin-spin scalar coupling mediated C-13 homonuclear polarization transfer in biological solids without proton decoupling. <i>Solid State Nuclear Magnetic Resonance</i> , 2006, 29, 278-282.	2.3	11
81	Direct synthesis of highly ordered large-pore functionalized mesoporous SBA-15 silica with methylaminopropyl groups and its catalytic reactivity in flavanone synthesis. <i>Microporous and Mesoporous Materials</i> , 2005, 85, 241-251.	4.4	58
82	Double-quantum NMR spectroscopy based on finite pulse RFDR. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 27, 266-270.	2.3	26
83	Direct Synthesis and Catalytic Applications of Ordered Large Pore Aminopropyl-Functionalized SBA-15 Mesoporous Materials. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1763-1769.	2.6	524
84	Catalytic applications of aminopropylated mesoporous silica prepared by a template-free route in flavanones synthesis. <i>Journal of Catalysis</i> , 2005, 233, 266-275.	6.2	101
85	Biomimetic Formation of Hydroxyapatite Nanorods by a Single-Crystal-to-Single-Crystal Transformation. <i>Advanced Functional Materials</i> , 2005, 15, 2005-2010.	14.9	139
86	Parallel β -Sheets and Polar Zippers in Amyloid Fibrils Formed by Residues 10 [~] 39 of the Yeast Prion Protein Ure2p. <i>Biochemistry</i> , 2005, 44, 10669-10680.	2.5	134
87	Mechanistic Study of Apatite Formation on Bioactive Glass Surface Using ³¹ P Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2005, 17, 4493-4501.	6.7	79
88	High resolution ³¹ P NMR study of octacalcium phosphate. <i>Solid State Nuclear Magnetic Resonance</i> , 2004, 26, 99-104.	2.3	41
89	Broadband rotational resonance in solid state NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2004, 120, 8349-8352.	3.0	17
90	Preparation of ordered large pore SBA-15 silica functionalized with aminopropyl groups through one-pot synthesis. <i>Chemical Communications</i> , 2004, , 2762.	4.1	90

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91	NMR Studies of Phosphorus Chalcogenide-Copper Iodide Coordination Compounds.. ChemInform, 2003, 34, no.	0.0	0
92	Solid-State NMR Spectroscopy Method for Determination of the Backbone Torsion Angle τ in Peptides with Isolated Uniformly Labeled Residues. Journal of the American Chemical Society, 2003, 125, 11828-11829.	13.7	50
93	Novel Sol-Gel Synthesis of Sodium Aluminophosphate Glass Based on Aluminum Lactate. Chemistry of Materials, 2003, 15, 2702-2710.	6.7	33
94	Recoupling of chemical shift anisotropies in solid-state NMR under high-speed magic-angle spinning and in uniformly ^{13}C -labeled systems. Journal of Chemical Physics, 2003, 118, 8378-8389.	3.0	139
95	NMR studies of phosphorus chalcogenide-copper iodide coordination compounds. Physical Chemistry Chemical Physics, 2003, 5, 3768-3776.	2.8	37
96	Solid State NMR Connectivity Studies in Dipolarly Coupled Inorganic Networks: Site Assignments in the Solid Electrolyte Material $(\text{Cu})_8\text{P}_{12}$. Zeitschrift Fur Physikalische Chemie, 2003, 217, 1627-1640.	2.8	6
97	Local coordination and spatial distribution of cations in mixed-alkali borate glasses. Physical Chemistry Chemical Physics, 2002, 4, 3198-3208.	2.8	43
98	$(\text{Cu})_3\text{P}_4\text{S}_4$: Preparation, Structural, and NMR Spectroscopic Characterization of a Copper(I) Halide Adduct with $\text{-P}_4\text{S}_4$. Chemistry - A European Journal, 2002, 8, 4228-4233.	3.3	42
99	Apatite Crystallization in an Aluminosilicate Glass Matrix: A Mechanistic Studies by X-ray Powder Diffraction, Thermal Analysis, and Multinuclear Solid-State NMR Spectroscopy. Chemistry of Materials, 2001, 13, 4198-4206.	6.7	21
100	C-rotational echo double resonance: Heteronuclear dipolar recoupling with homonuclear dipolar decoupling. Journal of Chemical Physics, 2001, 115, 6095-6105.	3.0	39
101	Short and Medium Range Order in Sodium Aluminoborate Glasses. 2. Site Connectivities and Cation Distributions Studied by Rotational Echo Double Resonance NMR Spectroscopy. Journal of Physical Chemistry B, 2000, 104, 6541-6553.	2.6	116
102	Spin echoes in half-integer quadrupole systems. Concepts in Magnetic Resonance, 1999, 11, 363-377.	1.3	18
103	Site Connectivities in Amorphous Materials Studied by Double-Resonance NMR of Quadrupolar Nuclei: High-Resolution ^{11}B and ^{27}Al Spectroscopy of Aluminoborate Glasses. Journal of the American Chemical Society, 1999, 121, 5238-5248.	13.7	145
104	Short-Range Order and Site Connectivities in Sodium Aluminoborate Glasses: I. Quantification of Local Environments by High-Resolution ^{11}B , ^{23}Na , and ^{27}Al Solid-State NMR. Journal of Physical Chemistry B, 1998, 102, 4495-4506.	2.6	130
105	Density Functional Study of ^{59}Co Chemical Shielding Tensors Using Gauge-Including Atomic Orbitals. Journal of Physical Chemistry A, 1997, 101, 3637-3640.	2.5	21
106	Density Functional Study of the Electronic Structures of $[\text{Co}(\text{NH}_3)_5\text{X}]^{(3+n)+}$ Complexes. Insight into the Role of the 3d and 4s Orbitals in Metal-Ligand Interactions. Journal of Physical Chemistry A, 1997, 101, 4196-4201.	2.5	9
107	Single-Crystal Cobalt-59 NMR Study of $\text{Tris}(2,4\text{-pentanedionato-O,O}^-)\text{cobalt(III)}$. Journal of Physical Chemistry A, 1997, 101, 5423-5430.	2.5	45
108	Interpretation of ^{59}Co NMR shielding using the hard and soft acid-base concept. Insight into the relative magnitude of the nephelauxetic and the spectrochemical effect. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 1121-1128.	1.7	16

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109	Synthesis and structural characterization of a phosphido-bridged heterobimetallic transition metal complex, $(\text{CO})_3\text{Fe}(\mu_4\text{-PPh}_2)_2\text{Mo}(\text{CO})_4$. <i>Journal of Organometallic Chemistry</i> , 1996, 522, 155-160.	1.8	9
110	Polycrystalline cobalt-59 NMR studies of metal-ligand interaction in axially symmetric diamagnetic cobalt(III) complexes. Correlation of $\delta(59\text{Co})$ with NQCC/ Δ . <i>The Journal of Physical Chemistry</i> , 1993, 97, 12685-12690.	2.9	20
111	Solid-state heteronuclear multiple-quantum spectroscopy under a magic-angle spinning frequency of 150 kHz. <i>Journal of the Chinese Chemical Society</i> , 0, , .	1.4	1