Gil Goobes

List of Publications by Year in descending order

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Version: 2024-02-01

		331670	:	289244
55	1,705 citations	21		40
papers	citations	h-index		g-index
58	58	58		2399
all docs	docs citations	times ranked		citing authors

#	Article	IF	CITATIONS
1	Pushing the limit of layered transition metal oxide cathodes for high-energy density rechargeable Li ion batteries. Energy and Environmental Science, 2018, 11, 1271-1279.	30.8	322
2	Integrated Materials xLi[sub 2]MnO[sub 3]â‹(1â^'x)LiMn[sub 1/3]Ni[sub 1/3]Co[sub 1/3]O[sub 2] (x=0.3,â€,0.5 Synthesized. Journal of the Electrochemical Society, 2010, 157, A1121.	5,ĝ€,0.7)	185
3	Folding of the C-terminal bacterial binding domain in statherin upon adsorption onto hydroxyapatite crystals. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16083-16088.	7.1	88
4	Studies of Li and Mn-Rich Li _x [MnNiCo]O ₂ Electrodes: Electrochemical Performance, Structure, and the Effect of the Aluminum Fluoride Coating. Journal of the Electrochemical Society, 2013, 160, A2220-A2233.	2.9	87
5	On the Surface Chemistry of LiMO[sub 2] Cathode Materials (M=[MnNi] and [MnNiCo]): Electrochemical, Spectroscopic, and Calorimetric Studies. Journal of the Electrochemical Society, 2010, 157, A1099.	2.9	86
6	Thermodynamics of Statherin Adsorption onto Hydroxyapatite. Biochemistry, 2006, 45, 5576-5586.	2.5	74
7	Minerals in the pre-settled coral Stylophora pistillata crystallize via protein and ion changes. Nature Communications, 2018, 9, 1880.	12.8	53
8	Homonuclear and Heteronuclear NMR Studies of a Statherin Fragment Bound to Hydroxyapatite Crystals. Journal of Physical Chemistry B, 2006, 110, 9324-9332.	2.6	50
9	Solid state NMR studies of molecular recognition at protein–mineral interfaces. Progress in Nuclear Magnetic Resonance Spectroscopy, 2007, 50, 71-85.	7.5	50
10	Studying the Conformation of a Silaffin-Derived Pentalysine Peptide Embedded in Bioinspired Silica using Solution and Dynamic Nuclear Polarization Magic-Angle Spinning NMR. Journal of the American Chemical Society, 2016, 138, 5561-5567.	13.7	46
11	The structure, dynamics, and energetics of protein adsorption—lessons learned from adsorption of statherin to hydroxyapatite. Magnetic Resonance in Chemistry, 2007, 45, S32-S47.	1.9	44
12	A ¹³ C{ ³¹ P} REDOR NMR Investigation of the Role of Glutamic Acid Residues in Statherin-Hydroxyapatite Recognition. Langmuir, 2009, 25, 12136-12143.	3.5	41
13	Cation Diffusion Facilitators Transport Initiation and Regulation Is Mediated by Cation Induced Conformational Changes of the Cytoplasmic Domain. PLoS ONE, 2014, 9, e92141.	2.5	41
14	Siliplant1 protein precipitates silica in sorghum silica cells. Journal of Experimental Botany, 2020, 71, 6830-6843.	4.8	34
15	LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material: New Insights via ⁷ Li and ²⁷ Al Magic-Angle Spinning NMR Spectroscopy. Chemistry of Materials, 2016, 28, 7594-7604.	6.7	32
16	New aqueous energy storage devices comprising graphite cathodes, MXene anodes and concentrated sulfuric acid solutions. Energy Storage Materials, 2020, 32, 1-10.	18.0	32
17	NMR-Detected Dynamics of Sodium Co-Intercalation with Diglyme Solvent Molecules in Graphite Anodes Linked to Prolonged Cycling. Journal of Physical Chemistry C, 2018, 122, 21172-21184.	3.1	27
18	Biogenic Guanine Crystals Are Solid Solutions of Guanine and Other Purine Metabolites. Journal of the American Chemical Society, 2022, 144, 5180-5189.	13.7	26

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19	Changes to the Disordered Phase and Apatite Crystallite Morphology during Mineralization by an Acidic Mineral Binding Peptide from Osteonectin. Biomacromolecules, 2015, 16, 2656-2663.	5.4	23
20	Biosilica and bioinspired silica studied by solid-state NMR. Coordination Chemistry Reviews, 2016, 327-328, 110-122.	18.8	23
21	Osteopontin regulates biomimetic calcium phosphate crystallization from disordered mineral layers covering apatite crystallites. Scientific Reports, 2020, 10, 15722.	3.3	23
22	Linking structure to performance of Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ (Li and Mn) Tj E7 2020, 22, 9098-9109.	ГQ <u>q0</u> 00 0 г	gBT/Overlock
23	Interfacial Mineral–Peptide Properties of a Mineral Binding Peptide from Osteonectin and Bone-like Apatite. Chemistry of Materials, 2015, 27, 5562-5569.	6.7	21
24	The Coral Protein CARP3 Acts from a Disordered Mineral Surface Film to Divert Aragonite Crystallization in Favor of Mgâ€Calcite. Advanced Functional Materials, 2018, 28, 1707321.	14.9	19
25	Ammonia Treatment of 0.35Li ₂ MnO ₃ ·0.65LiNi _{0.35} Mn _{0.45} Co _{0.20} O <material: 122,="" 2018,="" 3773-3779.<="" analysis.="" c,="" chemistry="" from="" insights="" journal="" nmr="" of="" physical="" solid-state="" td=""><td>:sub.12<td>ub19</td></td></material:>	:su b.1 2 <td>ub19</td>	ub 1 9
26	Spectroscopic Discrimination of Sorghum Silica Phytoliths. Frontiers in Plant Science, 2019, 10, 1571.	3.6	18
27	Past and Future Solidâ€State NMR Spectroscopy Studies at the Convergence Point between Biology and Materials Research. Israel Journal of Chemistry, 2014, 54, 113-124.	2.3	17
28	A REDOR ssNMR Investigation of the Role of an N-Terminus Lysine in R5 Silica Recognition. Langmuir, 2018, 34, 8678-8684.	3.5	15
29	Understanding the roles of functional peptides in designing apatite and silica nanomaterials biomimetically using NMR techniques. Current Opinion in Colloid and Interface Science, 2018, 33, 44-52.	7.4	14
30	A REDOR study of diammonium hydrogen phosphate: A model for distance measurements from adsorbed molecules to surfaces. Solid State Nuclear Magnetic Resonance, 2006, 29, 242-250.	2.3	13
31	Ubiquitin immobilized on mesoporous MCM41 silica surfaces – Analysis by solid-state NMR with biophysical and surface characterization. Biointerphases, 2017, 12, 02D414.	1.6	13
32	Trapping RNase A on MCM41 pores: effects on structure stability, product inhibition and overall enzymatic activity. Physical Chemistry Chemical Physics, 2014, 16, 9031-9038.	2.8	12
33	How does osteocalcin lacking \hat{I}^3 -glutamic groups affect biomimetic apatite formation and what can we say about its structure in mineral-bound form?. Journal of Structural Biology, 2019, 207, 104-114.	2.8	12
34	Design of Compact Biomimetic Cellulose Binding Peptides as Carriers for Cellulose Catalytic Degradation. Journal of Physical Chemistry B, 2016, 120, 309-319.	2.6	10
35	Engineering <scp>I</scp> -asparaginase for spontaneous formation of calcium phosphate bioinspired microreactors. Physical Chemistry Chemical Physics, 2018, 20, 12719-12726.	2.8	9
36	Molecular differences in collagen organization and in organic-inorganic interfacial structure of bones with and without osteocytes. Acta Biomaterialia, 2022, 144, 195-209.	8.3	9

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37	Conformation and Dynamics of Organic Tethers Bound to MCM41-Type Surfaces from Solid State NMR Measurements. Journal of Physical Chemistry C, 2012, 116, 7442-7449.	3.1	8
38	Electrochemical and Thermal Behavior of Modified Li and Mnâ€Rich Cathode Materials in Battery Prototypes: Impact of Pentasodium Aluminate Coating and Comprehensive Understanding of Its Evolution upon Cycling through Solid tate Nuclear Magnetic Resonance Analysis. Advanced Energy and Sustainability Research, 2021, 2, 2000089.	5.8	8
39	Alumina thin coat on pre-charged soft carbon anode reduces electrolyte breakdown and maintains sodiation sites active in Na-ion battery – Insights from NMR measurements. Journal of Solid State Chemistry, 2021, 298, 122121.	2.9	8
40	Molecular Layer Deposition of Alucone Thin Film on LiCoO ₂ to Enable High Voltage Operation. Batteries and Supercaps, 2021, 4, 1739-1748.	4.7	8
41	Mesomorphic behavior induced by stacking interactions between poly(2-vinyl pyridine) and palladium pincer surfactants in the solid state. Soft Matter, 2012, 8, 7393.	2.7	6
42	Covalent binding of a nickel macrocyclic complex to a silica support: towards an electron exchange column. Dalton Transactions, 2014, 43, 103-110.	3.3	6
43	Polyoxometalates entrapped in sol–gel matrices for reducing electron exchange column applications. Journal of Coordination Chemistry, 2016, 69, 3449-3457.	2.2	6
44	Peptides from diatoms and grasses harness phosphate ion binding to silica to help regulate biomaterial structure. Acta Biomaterialia, 2020, 112, 286-297.	8.3	6
45	Solid-State NMR Studies of Biomineralization Peptides and Proteins. ACS Symposium Series, 2012, , 77-96.	0.5	4
46	Dynamic Behavior of Supramolecular Comb Polymers Consisting of Poly(2â€Vinyl Pyridine) and Palladiumâ€Pincer Surfactants in the Solid State. Chemistry - A European Journal, 2014, 20, 6951-6959.	3.3	4
47	A J-modulated protonless NMR experiment characterizes the conformational ensemble of the intrinsically disordered protein WIP. Journal of Biomolecular NMR, 2016, 66, 243-257.	2.8	4
48	Structure and Dynamics Perturbations in Ubiquitin Adsorbed or Entrapped in Silica Materials Are Related to Disparate Surface Chemistries Resolved by Solid-State NMR Spectroscopy. Biomacromolecules, 2021, 22, 3718-3730.	5.4	4
49	Lysozyme is Sterically Trapped Within the Silica Cage in Bioinspired Silica–Lysozyme Composites: A Multi-Technique Understanding of Elusive Protein–Material Interactions. Langmuir, 2022, 38, 8030-8037.	3.5	4
50	Preparation of Ge@Organosilicon Core–Shell Structures and Characterization by Solid State NMR and Other Techniques. Journal of Physical Chemistry C, 2013, 117, 11086-11094.	3.1	3
51	Reply to: Characterizing coral skeleton mineralogy with Raman spectroscopy. Nature Communications, 2018, 9, 5324.	12.8	3
52	Cu ²⁺ -Induced self-assembly and amyloid formation of a cyclic <scp>d</scp> , <scp>l</scp> -α-peptide: structure and function. Physical Chemistry Chemical Physics, 2022, 24, 6699-6715.	2.8	3
53	NMR studies of DNA microcapsules prepared using sonochemical methods. Physical Chemistry Chemical Physics, 2015, 17, 2235-2240.	2.8	2
54	Dynamics in hydrophilic and hydrophobic molecular chains tethered to MCM41-type mesoporous silica upon wetting and dehydration processes. Solid State Nuclear Magnetic Resonance, 2019, 98, 24-35.	2.3	1

#	Article	IF	CITATIONS
55	Sourcing Herod the Great's calcite-alabaster bathtubs by a multi-analytic approach. Scientific Reports, 2022, 12, 7524.	3.3	O