

Eddy Dib

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	One-pot synthesis of silanol-free nanosized MFI zeolite. <i>Nature Materials</i> , 2017, 16, 1010-1015.	27.5	135
2	Silanol defect engineering and healing in zeolites: opportunities to fine-tune their properties and performances. <i>Chemical Society Reviews</i> , 2021, 50, 11156-11179.	38.1	100
3	Structure-Directing Agent Governs the Location of Silanol Defects in Zeolites. <i>Chemistry of Materials</i> , 2015, 27, 7577-7579.	6.7	49
4	ZSM-5 Zeolite: Complete Al Bond Connectivity and Implications on Structure Formation from Solid-State NMR and Quantum Chemistry Calculations. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 19-24.	4.6	47
5	Complex H-bonded silanol network in zeolites revealed by IR and NMR spectroscopy combined with DFT calculations. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27347-27352.	10.3	33
6	The challenge of silanol species characterization in zeolites. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1125-1133.	6.0	29
7	¹⁴ N solid-state NMR: a sensitive probe of the local order in zeolites. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18349.	2.8	19
8	Recent Advances in ¹⁴ N Solid-State NMR. <i>Annual Reports on NMR Spectroscopy</i> , 2016, 87, 175-235.	1.5	18
9	Probing Disorder in Al-ZSM-5 Zeolites by ¹⁴ N NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15831-15841.	3.1	14
10	Silicalite-1 formation in acidic medium: Synthesis conditions and physicochemical properties. <i>Microporous and Mesoporous Materials</i> , 2022, 329, 111537.	4.4	14
11	Unraveling the Effect of Silanol Defects on the Insertion of Single-Site Mo in the MFI Zeolite Framework. <i>Inorganic Chemistry</i> , 2022, 61, 1418-1425.	4.0	14
12	Preferential orientations of structure directing agents in zeolites. <i>Dalton Transactions</i> , 2015, 44, 16680-16683.	3.3	13
13	¹¹ B MAS NMR Study of the Thermolytic Dehydrocoupling of Two Ammonia Boranes upon the Release of One Equivalent of H ₂ at Isothermal Conditions. <i>ChemistrySelect</i> , 2017, 2, 9396-9401.	1.5	13
14	The role of mixed alkali metal cations on the formation of nanosized CHA zeolite from colloidal precursor suspension. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 350-357.	9.4	13
15	Control the position of framework defects in zeolites by changing the symmetry of organic structure directing agents. <i>Microporous and Mesoporous Materials</i> , 2021, 315, 110899.	4.4	12
16	Zeolite Structure Direction: Identification, Strength and Involvement of Weak CH...O Hydrogen Bonds. <i>ChemPhysChem</i> , 2020, 21, 149-153.	2.1	11
17	Engineering RHO Nanozeolite: Controlling the Particle Morphology, Al and Cation Content, Stability, and Flexibility. <i>ACS Applied Energy Materials</i> , 2022, 5, 6032-6042.	5.1	11
18	DFT-D Study of ¹⁴ N Nuclear Quadrupolar Interactions in Tetra-alkyl Ammonium Halide Crystals. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3525-3533.	2.5	10

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19	Acidic medium synthesis of zeolites – an avenue to control the structure-directing power of organic templates. Dalton Transactions, 2022, 51, 11499-11506.	3.3	8
20	Intermolecular interactions in AST zeolites through ¹⁴ N NMR and DFT calculations. Acta Crystallographica Section C, Structural Chemistry, 2017, 73, 202-207.	0.5	6
21	¹⁴ N NMR of tetrapropylammonium based crystals. European Physical Journal: Special Topics, 2015, 224, 1769-1773.	2.6	5
22	Recrystallization on Alkaline Treated Zeolites in the Presence of Pore-Directing Agents. Crystal Growth and Design, 2018, 18, 2010-2015.	3.0	5
23	Host-Guest Silicalite-1 Zeolites: Correlated Disorder and Phase Transition Inhibition by a Small Guest Modification. Chemistry of Materials, 2022, 34, 366-387.	6.7	5
24	Access to sodalite cages in ion-exchanged nanosized FAU zeolites probed by hyperpolarized ¹²⁹ Xe NMR and DFT calculations. Microporous and Mesoporous Materials, 2022, 338, 111965.	4.4	5
25	Exploration, explanation and exploitation of hydroxyls in zeolites. National Science Review, 0, , .	9.5	3
26	A combination of proton spin diffusion NMR and molecular simulations to probe supramolecular assemblies of organic molecules in nanoporous materials. Dalton Transactions, 2022, 51, 5434-5440.	3.3	2
27	Hydroxyl environments in zeolites probed by deuterium solid-state MAS NMR combined with IR spectroscopy. Inorganic Chemistry Frontiers, 2022, 9, 2964-2968.	6.0	2