G N Manjunatha Reddy

List of Publications by Year
in descending order

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50 papers	1,804 citations	201385 27 h-index	264894 42 g-index
54 all docs	54 docs citations	54 times ranked	2042 citing authors

#	Article	IF	Citations
1	Moistureâ€Induced Nonâ€Equilibrium Phase Segregation in Triple Cation Mixed Halide Perovskite Monitored by In Situ Characterization Techniques and Solidâ€State NMR. Energy and Environmental Materials, 2023, 6, .	7.3	7
2	Resolving Atomicâ€Scale Interactions in Nonfullerene Acceptor Organic Solar Cells with Solidâ€State NMR Spectroscopy, Crystallographic Modelling, and Molecular Dynamics Simulations. Advanced Materials, 2022, 34, e2105943.	11.1	36
3	Structural insights into Lewis acid- and F4TCNQ-doped conjugated polymers by solid-state magnetic resonance spectroscopy. Materials Horizons, 2022, 9, 981-990.	6.4	16
4	Understanding Instability in Formamidinium Lead Halide Perovskites: Kinetics of Transformative Reactions at Grain and Subgrain Boundaries. ACS Energy Letters, 2022, 7, 1534-1543.	8.8	45
5	Low Voltageâ€Loss Organic Solar Cells Light the Way for Efficient Semitransparent Photovoltaics. Solar Rrl, 2022, 6, .	3.1	3
6	Molecularâ€Level Insight into Correlation between Surface Defects and Stability of Methylammonium Lead Halide Perovskite Under Controlled Humidity. Small Methods, 2021, 5, e2000834.	4.6	30
7	Dynamic Motion of Organic Spacer Cations in Ruddlesdenâ€“Popper Lead Iodide Perovskites Probed by Solid-State NMR Spectroscopy. Chemistry of Materials, 2021, 33, 642-656.	3.2	33
8	Tunable Broad Light Emission from 3D â€œHollowâ€•Bromide Perovskites through Defect Engineering. Journal of the American Chemical Society, 2021, 143, 7069-7080.	6.6	37
9	Insights into Bulkâ€Heterojunction Organic Solar Cells Processed from Green Solvent. Solar Rrl, 2021, 5, 2100213.	3.1	30
10	Cooperative Self-Assembly Driven by Multiple Noncovalent Interactions: Investigating Molecular Origin and Reassessing Characterization. ACS Central Science, 2021, 7, 1391-1399.	5.3	18
11	Editorial: Organic Semiconductors: Investigating the Processing-Structure-Property Relationships. Frontiers in Chemistry, 2021, 9, 745170.	1.8	2
12	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. , 2021, , .		0
13	Nanoscale Surface Compositions and Structures of Plasma-Modified Poly(ethylene terephthalate) Thin Films. Journal of Physical Chemistry C, 2021, 125, 20658-20669.	1.5	5
14	Interfaces in metal halide perovskites probed by solid-state NMR spectroscopy. Journal of Materials Chemistry A, 2021, 9, 19206-19244.	5.2	28
15	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. Energy and Environmental Science, 2021, 14, 5552-5562.	15.6	69
16	The role of bulk and interfacial morphology in charge generation, recombination, and extraction in non-fullerene acceptor organic solar cells. Energy and Environmental Science, 2020, 13, 3679-3692.	15.6	126
17	Insight into the structures and dynamics of organic semiconductors through solid-state NMR spectroscopy. Nature Reviews Materials, 2020, 5, 910-930.	23.3	69
18	Magic-angle spinning NMR spectroscopy provides insight into the impact of small molecule uptake by G-quartet hydrogels. Materials Advances, 2020, 1, 2236-2247.	2.6	8

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19	Defect Passivation via the Incorporation of Tetrapropylammonium Cation Leading to Stability Enhancement in Lead Halide Perovskite. Advanced Functional Materials, 2020, 30, 1909737.	7.8	50
20	Selective detection of active pharmaceutical ingredients in tablet formulations using solid-state NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2020, 106, 101651.	1.5	30
21	Understanding the High Performance of over 15% Efficiency in Singleâ€Junction Bulk Heterojunction Organic Solar Cells. Advanced Materials, 2019, 31, e1903868.	11.1	211
22	Nanoscale Surface Compositions and Structures Influence Boron Adsorption Properties of Anion Exchange Resins. Langmuir, 2019, 35, 15661-15673.	1.6	24
23	Atomic-Level Insight into the Postsynthesis Band Gap Engineering of a Lewis Base Polymer Using Lewis Acid Tris(pentafluorophenyl)borane. Chemistry of Materials, 2019, 31, 6715-6725.	3.2	35
24	Unifying Energetic Disorder from Charge Transport and Band Bending in Organic Semiconductors. Advanced Functional Materials, 2019, 29, 1901109.	7.8	62
25	Direct Observation of the Relationship between Molecular Topology and Bulk Morphology for a Ï€-Conjugated Material. Journal of the American Chemical Society, 2019, 141, 5078-5082.	6.6	38
26	Polyphenols Fingerprinting in Olive Oils Through Maximum-Quantum NMR Spectroscopy. Food Analytical Methods, 2018, 11, 1012-1020.	1.3	7
27	Coâ€existence of Distinct Supramolecular Assemblies in Solution and in the Solid State. Chemistry - A European Journal, 2017, 23, 2315-2322.	1.7	28
28	Coexistence of Distinct Supramolecular Assemblies in Solution and in the Solid State. Chemistry - A European Journal, 2017, 23, 2235-2235.	1.7	6
29	Determination of a complex crystal structure in the absence of single crystals: analysis of powder X-ray diffraction data, guided by solid-state NMR and periodic DFT calculations, reveals a new 2â€²-deoxyguanosine structural motif. Chemical Science, 2017, 8, 3971-3979.	3.7	62
30	Combined maximumâ€quantum and DOSY 3D experiments provide enhanced resolution for small molecules in mixtures. Magnetic Resonance in Chemistry, 2017, 55, 492-497.	1.1	9
31	Time-optimal excitation of maximum quantum coherence: Physical limits and pulse sequences. Journal of Chemical Physics, 2016, 144, 164103.	1.2	16
32	Fast Magic-Angle Spinning Three-Dimensional NMR Experiment for Simultaneously Probing Hâ€”H and Nâ€”H Proximities in Solids. Analytical Chemistry, 2016, 88, 11412-11419.	3.2	38
33	Interplay of Noncovalent Interactions in Ribbon-like Guanosine Self-Assembly: An NMR Crystallography Study. Crystal Growth and Design, 2015, 15, 5945-5954.	1.4	40
34	An NMR crystallography study of the hemihydrate of 2â€², 3â€²-O-isopropylidineguanosine. Solid State Nuclear Magnetic Resonance, 2015, 65, 41-48.	1.5	48
35	G4-QuartetÂ·M⁺ Borate Hydrogels. Journal of the American Chemical Society, 2015, 137, 5819-5827.	6.6	140
36	A G₄Â·K⁺ Hydrogel Stabilized by an Anion. Journal of the American Chemical Society, 2014, 136, 12596-12599.	6.6	163

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37	Improved excitation uniformity in multipleâ€quantum NMR experiments of mixtures. Magnetic Resonance in Chemistry, 2013, 51, 240-244.	1.1	14
38	Determination of Labile Chiral Supramolecular Ion Pairs by Chromatographic NMR Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 3255-3258.	7.2	29
39	Identification and quantification of EPA 16 priority polycyclic aromatic hydrocarbon pollutants by Maximum-Quantum NMR. Analyst, The, 2012, 137, 741-746.	1.7	14
40	Maximum-quantum (MaxQ) NMR for the speciation of mixtures of phenolic molecules. Chemical Communications, 2011, 47, 4297.	2.2	28
41	Non-uniformly sampled Maximum Quantum spectroscopy. Journal of Magnetic Resonance, 2011, 213, 107-111.	1.2	10
42	Demixing of Severely Overlapping NMR Spectra through Multiple-Quantum NMR. Analytical Chemistry, 2010, 82, 3266-3269.	3.2	30
43	Nâ€“Hâ‹¯F hydrogen bonds in fluorinated benzanilides: NMR and DFT study. Physical Chemistry Chemical Physics, 2010, 12, 13232.	1.3	49
44	Direct estimation of an element of order matrix from ¹H NMR spectra of strongly dipolar coupled spins. Magnetic Resonance in Chemistry, 2009, 47, 562-567.	1.1	2
45	Proton NMR studies of dihalogenated phenyl benzamides: twoâ€dimensional higher quantum methodologies. Magnetic Resonance in Chemistry, 2009, 47, 684-692.	1.1	6
46	Discerning the degenerate transitions of scalar coupled 1H NMR spectra: Correlation and resolved techniques at higher quantum. Journal of Magnetic Resonance, 2009, 196, 119-126.	1.2	18
47	Simplifying the Complex 1H NMR Spectra of Fluorine-Substituted Benzamides by Spin System Filtering and Spin-State Selection: Multiple-Quantumâ^'Single-Quantum Correlation. Journal of Physical Chemistry A, 2008, 112, 10526-10532.	1.1	23
48	Insight into short-range order, disorder and interfacial interactions in organic semiconductors and their blends through solid-state NMR spectroscopy. , 0, , .		0
49	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. , 0, , .		0
50	Probing moisture-induced structural and compositional changes in triple cation mixed halide hybrid perovskites. , 0, , .		0