

G N Manjunatha Reddy

List of Publications by Year in descending order

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Version: 2024-02-01

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	Understanding the High Performance of over 15% Efficiency in Single-junction Bulk Heterojunction Organic Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1903868.	11.1	211
2	A G ₄ K Hydrogel Stabilized by an Anion. <i>Journal of the American Chemical Society</i> , 2014, 136, 12596-12599.	6.6	163
3	G4-QuartetM Borate Hydrogels. <i>Journal of the American Chemical Society</i> , 2015, 137, 5819-5827.	6.6	140
4	The role of bulk and interfacial morphology in charge generation, recombination, and extraction in non-fullerene acceptor organic solar cells. <i>Energy and Environmental Science</i> , 2020, 13, 3679-3692.	15.6	126
5	Insight into the structures and dynamics of organic semiconductors through solid-state NMR spectroscopy. <i>Nature Reviews Materials</i> , 2020, 5, 910-930.	23.3	69
6	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2021, 14, 5552-5562.	15.6	69
7	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 2'-deoxyguanosine structural motif. <i>Chemical Science</i> , 2017, 8, 3971-3979.	3.7	62
8	Unifying Energetic Disorder from Charge Transport and Band Bending in Organic Semiconductors. <i>Advanced Functional Materials</i> , 2019, 29, 1901109.	7.8	62
9	Defect Passivation via the Incorporation of Tetrapropylammonium Cation Leading to Stability Enhancement in Lead Halide Perovskite. <i>Advanced Functional Materials</i> , 2020, 30, 1909737.	7.8	50
10	N-H-F hydrogen bonds in fluorinated benzanilides: NMR and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13232.	1.3	49
11	An NMR crystallography study of the hemihydrate of 2',3'-O-isopropylidineguanosine. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 65, 41-48.	1.5	48
12	Understanding Instability in Formamidinium Lead Halide Perovskites: Kinetics of Transformative Reactions at Grain and Subgrain Boundaries. <i>ACS Energy Letters</i> , 2022, 7, 1534-1543.	8.8	45
13	Interplay of Noncovalent Interactions in Ribbon-like Guanosine Self-Assembly: An NMR Crystallography Study. <i>Crystal Growth and Design</i> , 2015, 15, 5945-5954.	1.4	40
14	Fast Magic-Angle Spinning Three-Dimensional NMR Experiment for Simultaneously Probing ¹ H and ¹⁵ N Proximities in Solids. <i>Analytical Chemistry</i> , 2016, 88, 11412-11419.	3.2	38
15	Direct Observation of the Relationship between Molecular Topology and Bulk Morphology for a π -Conjugated Material. <i>Journal of the American Chemical Society</i> , 2019, 141, 5078-5082.	6.6	38
16	Tunable Broad Light Emission from 3D α -Hollow β -Bromide Perovskites through Defect Engineering. <i>Journal of the American Chemical Society</i> , 2021, 143, 7069-7080.	6.6	37
17	Resolving Atomic-scale Interactions in Nonfullerene Acceptor Organic Solar Cells with Solid-state NMR Spectroscopy, Crystallographic Modelling, and Molecular Dynamics Simulations. <i>Advanced Materials</i> , 2022, 34, e2105943.	11.1	36
18	Atomic-Level Insight into the Postsynthesis Band Gap Engineering of a Lewis Base Polymer Using Lewis Acid Tris(pentafluorophenyl)borane. <i>Chemistry of Materials</i> , 2019, 31, 6715-6725.	3.2	35

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19	Dynamic Motion of Organic Spacer Cations in Ruddlesdenâ€“Popper Lead Iodide Perovskites Probed by Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2021, 33, 642-656.	3.2	33
20	Demixing of Severely Overlapping NMR Spectra through Multiple-Quantum NMR. <i>Analytical Chemistry</i> , 2010, 82, 3266-3269.	3.2	30
21	Selective detection of active pharmaceutical ingredients in tablet formulations using solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 106, 101651.	1.5	30
22	Molecularâ€“Level Insight into Correlation between Surface Defects and Stability of Methylammonium Lead Halide Perovskite Under Controlled Humidity. <i>Small Methods</i> , 2021, 5, e2000834.	4.6	30
23	Insights into Bulkâ€“Heterojunction Organic Solar Cells Processed from Green Solvent. <i>Solar Rrl</i> , 2021, 5, 2100213.	3.1	30
24	Determination of Labile Chiral Supramolecular Ion Pairs by Chromatographic NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3255-3258.	7.2	29
25	Maximum-quantum (MaxQ) NMR for the speciation of mixtures of phenolic molecules. <i>Chemical Communications</i> , 2011, 47, 4297.	2.2	28
26	Coâ€“existence of Distinct Supramolecular Assemblies in Solution and in the Solid State. <i>Chemistry - A European Journal</i> , 2017, 23, 2315-2322.	1.7	28
27	Interfaces in metal halide perovskites probed by solid-state NMR spectroscopy. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19206-19244.	5.2	28
28	Nanoscale Surface Compositions and Structures Influence Boron Adsorption Properties of Anion Exchange Resins. <i>Langmuir</i> , 2019, 35, 15661-15673.	1.6	24
29	Simplifying the Complex 1H NMR Spectra of Fluorine-Substituted Benzamides by Spin System Filtering and Spin-State Selection: Multiple-Quantumâ€“Single-Quantum Correlation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10526-10532.	1.1	23
30	Discerning the degenerate transitions of scalar coupled 1H NMR spectra: Correlation and resolved techniques at higher quantum. <i>Journal of Magnetic Resonance</i> , 2009, 196, 119-126.	1.2	18
31	Cooperative Self-Assembly Driven by Multiple Noncovalent Interactions: Investigating Molecular Origin and Reassessing Characterization. <i>ACS Central Science</i> , 2021, 7, 1391-1399.	5.3	18
32	Time-optimal excitation of maximum quantum coherence: Physical limits and pulse sequences. <i>Journal of Chemical Physics</i> , 2016, 144, 164103.	1.2	16
33	Structural insights into Lewis acid- and F4TCNQ-doped conjugated polymers by solid-state magnetic resonance spectroscopy. <i>Materials Horizons</i> , 2022, 9, 981-990.	6.4	16
34	Identification and quantification of EPA 16 priority polycyclic aromatic hydrocarbon pollutants by Maximum-Quantum NMR. <i>Analyst</i> , The, 2012, 137, 741-746.	1.7	14
35	Improved excitation uniformity in multipleâ€“quantum NMR experiments of mixtures. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 240-244.	1.1	14
36	Non-uniformly sampled Maximum Quantum spectroscopy. <i>Journal of Magnetic Resonance</i> , 2011, 213, 107-111.	1.2	10

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37	Combined maximum-quantum and DOSY 3D experiments provide enhanced resolution for small molecules in mixtures. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 492-497.	1.1	9
38	Magic-angle spinning NMR spectroscopy provides insight into the impact of small molecule uptake by G-quartet hydrogels. <i>Materials Advances</i> , 2020, 1, 2236-2247.	2.6	8
39	Polyphenols Fingerprinting in Olive Oils Through Maximum-Quantum NMR Spectroscopy. <i>Food Analytical Methods</i> , 2018, 11, 1012-1020.	1.3	7
40	Moisture-Induced Non-Equilibrium Phase Segregation in Triple Cation Mixed Halide Perovskite Monitored by <i>In Situ</i> Characterization Techniques and Solid-State NMR. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	7
41	Proton NMR studies of dihalogenated phenyl benzamides: two-dimensional higher quantum methodologies. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 684-692.	1.1	6
42	Coexistence of Distinct Supramolecular Assemblies in Solution and in the Solid State. <i>Chemistry - A European Journal</i> , 2017, 23, 2235-2235.	1.7	6
43	Nanoscale Surface Compositions and Structures of Plasma-Modified Poly(ethylene terephthalate) Thin Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20658-20669.	1.5	5
44	Low Voltage-Loss Organic Solar Cells Light the Way for Efficient Semitransparent Photovoltaics. <i>Solar Rrl</i> , 2022, 6, .	3.1	3
45	Direct estimation of an element of order matrix from ¹ H NMR spectra of strongly dipolar coupled spins. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 562-567.	1.1	2
46	Editorial: Organic Semiconductors: Investigating the Processing-Structure-Property Relationships. <i>Frontiers in Chemistry</i> , 2021, 9, 745170.	1.8	2
47	Insight into short-range order, disorder and interfacial interactions in organic semiconductors and their blends through solid-state NMR spectroscopy. , 0, , .		0
48	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. , 0, , .		0
49	Nanoscale interfacial engineering enables highly stable and efficient perovskite photovoltaics. , 2021, , .		0
50	Probing moisture-induced structural and compositional changes in triple cation mixed halide hybrid perovskites. , 0, , .		0