

# Rangeet Bhattacharyya

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,795  
citations

759233

12  
h-index

501196

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

3186  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ NMR observation of the formation of metallic lithium microstructures in lithium batteries. <i>Nature Materials</i> , 2010, 9, 504-510.	27.5	650
2	Real-Time NMR Investigations of Structural Changes in Silicon Electrodes for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2009, 131, 9239-9249.	13.7	634
3	Quadrupolar nuclear magnetic resonance spectroscopy in solids using frequency-swept echoing pulses. <i>Journal of Chemical Physics</i> , 2007, 127, 194503.	3.0	107
4	Palladium Nanoparticles on Graphite Oxide: A Recyclable Catalyst for the Synthesis of Biaryl Cores. <i>ACS Catalysis</i> , 2013, 3, 2776-2789.	11.2	91
5	Theory and spectroscopy of an incarcerated quantum rotor: The infrared spectroscopy, inelastic neutron scattering and nuclear magnetic resonance of H <sub>2</sub> @C <sub>60</sub> at cryogenic temperature. <i>Coordination Chemistry Reviews</i> , 2011, 255, 938-948.	18.8	58
6	Super paramagnetic Norbornene Copolymer Functionalized with Biotin and Doxorubicin: A Potential Unique Site-Specific Theranostic Agent. <i>Macromolecules</i> , 2016, 49, 2411-2418.	4.8	30
7	A fast method for the measurement of long spin-lattice relaxation times by single scan inversion recovery experiment. <i>Chemical Physics Letters</i> , 2004, 383, 99-103.	2.6	22
8	Diversity of carboxylate binding in a new tetranuclear zinc cluster: correlation between spectroscopic investigations and carboxylate binding modes. <i>RSC Advances</i> , 2012, 2, 1774.	3.6	20
9	Site-Specific Amphiphilic Magnetic Copolymer Nanoaggregates for Dual Imaging. <i>Macromolecules</i> , 2015, 48, 6791-6800.	4.8	18
10	Iron(III) Coordinated Polymeric Nanomaterial: A Next-Generation Theranostic Agent for High-Resolution T <sub>1</sub> -Weighted Magnetic Resonance Imaging and Anticancer Drug Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1738-1749.	5.2	18
11	Monitoring Coil-Globule Transitions of Thermoresponsive Polymers by Using NMR Solvent Relaxation. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6094-6100.	2.6	17
12	Ultrafast Solid-State 2D NMR Experiments via Orientational Encoding. <i>Journal of the American Chemical Society</i> , 2006, 128, 16014-16015.	13.7	15
13	Engineering Camptothecin-Derived Norbornene Polymers for Theranostic Application. <i>ACS Omega</i> , 2017, 2, 2848-2857.	3.5	13
14	Quantum master equation with dissipators regularized by thermal fluctuations. <i>Physical Review A</i> , 2018, 97, .	2.5	12
15	Non-Bloch decay of Rabi oscillations in liquid state NMR. <i>Europhysics Letters</i> , 2018, 121, 57002.	2.0	10
16	Optimal clock speed of qubit gate operations on open quantum systems. <i>Physical Review A</i> , 2020, 101, .	2.5	9
17	Implementation of parallel search algorithms using spatial encoding by nuclear magnetic resonance. <i>Physical Review A</i> , 2005, 71, .	2.5	8
18	Design and synthesis of a dual imageable theranostic platinum prodrug for efficient cancer therapy. <i>Polymer Chemistry</i> , 2019, 10, 3066-3078.	3.9	8

#	ARTICLE	IF	CITATIONS
19	Nonlinearity and temperature dependence of drive-induced shifts in a thermal environment. Physical Review A, 2020, 102, .	2.5	8
20	Hetero-Trifunctional Malonate-Based Nanotheranostic System for Targeted Breast Cancer Therapy. ACS Applied Bio Materials, 2021, 4, 5251-5265.	4.6	8
21	Monitoring aggregation of a pH-responsive polymer via proton exchange. Physical Chemistry Chemical Physics, 2017, 19, 17360-17365.	2.8	6
22	Emergence of the Born rule in strongly driven dissipative systems. Physical Review A, 2021, 104, .	2.5	6
23	Use of cross-correlated NMR relaxation for the study of motional anisotropy of liquid crystals. Chemical Physics Letters, 2003, 372, 35-44.	2.6	5
24	Use of spatial encoding in NMR photography. Journal of Magnetic Resonance, 2004, 171, 359-363.	2.1	5
25	Enhancement of the accuracy of determination of transverse relaxation time in solution state NMR spectroscopy by using Uhrig's dynamic decoupling sequences. Physical Chemistry Chemical Physics, 2015, 17, 32384-32389.	2.8	5
26	Gadolinium(III) Coordinated Theranostic Polymer for Proficient Sequential Targetingâ€“Combinational Chemotherapy and $T_1$ Weighted Magnetic Resonance Imaging. ACS Applied Polymer Materials, 2022, 4, 1752-1763.	4.4	5
27	Time-periodic interaction between a spin-pair: A quantum master equation Approach. Journal of Magnetic Resonance Open, 2022, 10-11, 100046.	1.1	4
28	Dynamic decoupling in the presence of 1D random walk. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 053210.	2.3	3
29	Recent studies on accurate measurements of NMR transverse relaxation times. Annual Reports on NMR Spectroscopy, 2020, 99, 57-77.	1.5	0