Rangeet Bhattacharyya

List of Publications by Year
in descending order

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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	Gadolinium(III) Coordinated Theranostic Polymer for Proficient Sequential Targetingâ€“Combinational Chemotherapy and T₁ Weighted Magnetic Resonance Imaging. ACS Applied Polymer Materials, 2022, 4, 1752-1763.	4.4	5
2	Time-periodic interaction between a spin-pair: A quantum master equationÂapproach. Journal of Magnetic Resonance Open, 2022, 10-11, 100046.	1.1	4
3	Hetero-Trifunctional Malonate-Based Nanotheranostic System for Targeted Breast Cancer Therapy. ACS Applied Bio Materials, 2021, 4, 5251-5265.	4.6	8
4	Emergence of the Born rule in strongly driven dissipative systems. Physical Review A, 2021, 104, .	2.5	6
5	Nonlinearity and temperature dependence of drive-induced shifts in a thermal environment. Physical Review A, 2020, 102, .	2.5	8
6	Optimal clock speed of qubit gate operations on open quantum systems. Physical Review A, 2020, 101, .	2.5	9
7	Recent studies on accurate measurements of NMR transverse relaxation times. Annual Reports on NMR Spectroscopy, 2020, 99, 57-77.	1.5	0
8	Design and synthesis of a dual imageable theranostic platinum prodrug for efficient cancer therapy. Polymer Chemistry, 2019, 10, 3066-3078.	3.9	8
9	Iron(III) Coordinated Polymeric Nanomaterial: A Next-Generation Theranostic Agent for High-Resolution T₁-Weighted Magnetic Resonance Imaging and Anticancer Drug Delivery. ACS Biomaterials Science and Engineering, 2018, 4, 1738-1749.	5.2	18
10	Non-Bloch decay of Rabi oscillations in liquid state NMR. Europhysics Letters, 2018, 121, 57002.	2.0	10
11	Monitoring Coilâ€“Globule Transitions of Thermoresponsive Polymers by Using NMR Solvent Relaxation. Journal of Physical Chemistry B, 2018, 122, 6094-6100.	2.6	17
12	Quantum master equation with dissipators regularized by thermal fluctuations. Physical Review A, 2018, 97, .	2.5	12
13	Monitoring aggregation of a pH-responsive polymer via proton exchange. Physical Chemistry Chemical Physics, 2017, 19, 17360-17365.	2.8	6
14	Engineering Camptothecin-Derived Norbornene Polymers for Theranostic Application. ACS Omega, 2017, 2, 2848-2857.	3.5	13
15	Dynamic decoupling in the presence of 1D random walk. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 053210.	2.3	3
16	Super paramagnetic Norbornene Copolymer Functionalized with Biotin and Doxorubicin: A Potential Unique Site-Specific Theranostic Agent. Macromolecules, 2016, 49, 2411-2418.	4.8	30
17	Site-Specific Amphiphilic Magnetic Copolymer Nanoaggregates for Dual Imaging. Macromolecules, 2015, 48, 6791-6800.	4.8	18
18	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

#	Article	IF	Citations
19	Palladium Nanoparticles on Graphite Oxide: A Recyclable Catalyst for the Synthesis of Biaryl Cores. ACS Catalysis, 2013, 3, 2776-2789.	11.2	91
20	Diversity of carboxylate binding in a new tetranuclear zinc cluster: correlation between spectroscopic investigations and carboxylate binding modes. RSC Advances, 2012, 2, 1774.	3.6	20
21	Theory and spectroscopy of an incarcerated quantum rotor: The infrared spectroscopy, inelastic neutron scattering and nuclear magnetic resonance of H2@C60 at cryogenic temperature. Coordination Chemistry Reviews, 2011, 255, 938-948.	18.8	58
22	In situ NMR observation of the formation of metallic lithium microstructures in lithium batteries. Nature Materials, 2010, 9, 504-510.	27.5	650
23	Real-Time NMR Investigations of Structural Changes in Silicon Electrodes for Lithium-Ion Batteries. Journal of the American Chemical Society, 2009, 131, 9239-9249.	13.7	634
24	Quadrupolar nuclear magnetic resonance spectroscopy in solids using frequency-swept echoing pulses. Journal of Chemical Physics, 2007, 127, 194503.	3.0	107
25	Ultrafast Solid-State 2D NMR Experiments via Orientational Encoding. Journal of the American Chemical Society, 2006, 128, 16014-16015.	13.7	15
26	Implementation of parallel search algorithms using spatial encoding by nuclear magnetic resonance. Physical Review A, 2005, 71, .	2.5	8
27	Use of spatial encoding in NMR photography. Journal of Magnetic Resonance, 2004, 171, 359-363.	2.1	5
28	A fast method for the measurement of long spinâ€“lattice relaxation times by single scan inversion recovery experiment. Chemical Physics Letters, 2004, 383, 99-103.	2.6	22
29	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