

# John M Franck

## List of Publications by Year in descending order

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24  
papers

678  
citations

643344

15  
h-index

685536

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1050  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative cw Overhauser effect dynamic nuclear polarization for the analysis of local water dynamics. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013, 74, 33-56.	3.9	110
2	Anomalously Rapid Hydration Water Diffusion Dynamics Near DNA Surfaces. <i>Journal of the American Chemical Society</i> , 2015, 137, 12013-12023.	6.6	59
3	Probing the hydration water diffusion of macromolecular surfaces and interfaces. <i>New Journal of Physics</i> , 2011, 13, 015006.	1.2	50
4	Transmembrane Protein Activation Refined by Site-Specific Hydration Dynamics. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1953-1958.	7.2	49
5	DAC-board based X-band EPR spectrometer with arbitrary waveform control. <i>Journal of Magnetic Resonance</i> , 2013, 235, 95-108.	1.2	48
6	Exciton Energy Shifts and Tunable Dopant Emission in Manganese-Doped Two-Dimensional CdS/ZnS Core/Shell Nanoplatelets. <i>Chemistry of Materials</i> , 2019, 31, 2516-2523.	3.2	48
7	A Cyclopentane Conformational Restraint for a Peptide Nucleic Acid: Design, Asymmetric Synthesis, and Improved Binding Affinity to DNA and RNA. <i>Organic Letters</i> , 2003, 5, 2695-2698.	2.4	47
8	Specific Ions Modulate Diffusion Dynamics of Hydration Water on Lipid Membrane Surfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 2642-2649.	6.6	36
9	Nonlinear Scaling of Surface Water Diffusion with Bulk Water Viscosity of Crowded Solutions. <i>Journal of the American Chemical Society</i> , 2013, 135, 4175-4178.	6.6	34
10	Asymmetric Collapse in Biomimetic Complex Coacervates Revealed by Local Polymer and Water Dynamics. <i>Biomacromolecules</i> , 2013, 14, 1395-1402.	2.6	32
11	Understanding the Surface Properties of Halide Exchanged Cesium Lead Halide Nanoparticles. <i>Langmuir</i> , 2018, 34, 11139-11146.	1.6	28
12	Probing Water Density and Dynamics in the Chaperonin GroEL Cavity. <i>Journal of the American Chemical Society</i> , 2014, 136, 9396-9403.	6.6	25
13	Ligand-mediated synthesis of chemically tailored two-dimensional all-inorganic perovskite nanoplatelets under ambient conditions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14226-14235.	2.7	20
14	Least Squares Magnetic-Field Optimization for Portable Nuclear Magnetic Resonance Magnet Design. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 4582-4590.	1.2	18
15	Overhauser Dynamic Nuclear Polarization for the Study of Hydration Dynamics, Explained. <i>Methods in Enzymology</i> , 2019, 615, 131-175.	0.4	16
16	Overhauser dynamic nuclear polarization-enhanced NMR relaxometry. <i>Microporous and Mesoporous Materials</i> , 2013, 178, 113-118.	2.2	15
17	Focus: Two-dimensional electron-electron double resonance and molecular motions: The challenge of higher frequencies. <i>Journal of Chemical Physics</i> , 2015, 142, 212302.	1.2	14
18	Active cancellation – A means to zero dead-time pulse EPR. <i>Journal of Magnetic Resonance</i> , 2015, 261, 199-204.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Shimmed matching pulses: Simultaneous control of rf and static gradients for inhomogeneity correction. <i>Journal of Chemical Physics</i> , 2009, 131, 234506.	1.2	8
20	Ligand Surface Density Decreases with Quantum Rod Aspect Ratio. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23682-23690.	1.5	3
21	â€Ex situâ€™ magnetic resonance volume imaging. <i>Chemical Physics Letters</i> , 2009, 467, 398-401.	1.2	2
22	Overhauser Dynamic Nuclear Polarization: A Tool for Building Maps of Hydration Water. <i>Biophysical Journal</i> , 2020, 118, 487a.	0.2	1
23	Mapping Out Protein Hydration Dynamics by Overhauser Dynamic Nuclear Polarization. <i>Biological Magnetic Resonance</i> , 2015, , 43-74.	0.4	1
24	High-Resolution NMR in Inhomogeneous Fields. , 2011, , 143-164.		0