

Vikram S Bajaj

List of Publications by Year in descending order

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28
papers

3,850
citations

257450

24
h-index

434195

31
g-index

32
all docs

32
docs citations

32
times ranked

3564
citing authors

#	ARTICLE	IF	CITATIONS
1	An optimized microfabricated platform for the optical generation and detection of hyperpolarized ¹²⁹ Xe. <i>Scientific Reports</i> , 2017, 7, 43994.	3.3	18
2	Optical hyperpolarization and NMR detection of ¹²⁹ Xe on a microfluidic chip. <i>Nature Communications</i> , 2014, 5, 3908.	12.8	58
3	Genetically encoded reporters for hyperpolarized xenon magnetic resonance imaging. <i>Nature Chemistry</i> , 2014, 6, 629-634.	13.6	186
4	Hyperpolarized Xenon-Based Molecular Sensors for Label-Free Detection of analytes. <i>Journal of the American Chemical Society</i> , 2014, 136, 164-168.	13.7	16
5	Gradient-free microfluidic flow labeling using thin magnetic films and remotely detected MRI. <i>Journal of Magnetic Resonance</i> , 2014, 249, 135-140.	2.1	2
6	Optically detected cross-relaxation spectroscopy of electron spins in diamond. <i>Nature Communications</i> , 2014, 5, 4135.	12.8	24
7	Atomic structure and hierarchical assembly of a cross- β amyloid fibril. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5468-5473.	7.1	479
8	Higher Order Amyloid Fibril Structure by MAS NMR and DNP Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 19237-19247.	13.7	82
9	Sensitive magnetic control of ensemble nuclear spin hyperpolarization in diamond. <i>Nature Communications</i> , 2013, 4, 1940.	12.8	51
10	Molecular Imaging of Cancer Cells Using a Bacteriophage-Based ¹²⁹ Xe NMR Biosensor. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4849-4853.	13.8	93
11	Band-selective chemical exchange saturation transfer imaging with hyperpolarized xenon-based molecular sensors. <i>Journal of Magnetic Resonance</i> , 2011, 213, 14-21.	2.1	25
12	DNP enhanced frequency-selective TEDOR experiments in bacteriorhodopsin. <i>Journal of Magnetic Resonance</i> , 2010, 202, 9-13.	2.1	51
13	Time Averaging of NMR Chemical Shifts in the MLF Peptide in the Solid State. <i>Journal of the American Chemical Society</i> , 2010, 132, 5993-6000.	13.7	65
14	A Xenon-Based Molecular Sensor Assembled on an MS2 Viral Capsid Scaffold. <i>Journal of the American Chemical Society</i> , 2010, 132, 5936-5937.	13.7	89
15	Accurate Determination of Interstrand Distances and Alignment in Amyloid Fibrils by Magic Angle Spinning NMR. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13555-13561.	2.6	25
16	Resolution and polarization distribution in cryogenic DNP/MAS experiments. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5861.	2.8	87
17	Cryogenic sample exchange NMR probe for magic angle spinning dynamic nuclear polarization. <i>Journal of Magnetic Resonance</i> , 2009, 198, 261-270.	2.1	108
18	Observation of a Low-Temperature, Dynamically Driven Structural Transition in a Polypeptide by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 118-128.	13.7	79

#	ARTICLE	IF	CITATIONS
19	Functional and shunt states of bacteriorhodopsin resolved by 250 GHz dynamic nuclear polarization-enhanced solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9244-9249.	7.1	294
20	Dynamic nuclear polarization at high magnetic fields. Journal of Chemical Physics, 2008, 128, 052211.	3.0	734
21	Energy transformations early in the bacteriorhodopsin photocycle revealed by DNP-enhanced solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 883-888.	7.1	187
22	High-frequency dynamic nuclear polarization using mixtures of TEMPO and trityl radicals. Journal of Chemical Physics, 2007, 126, 044512.	3.0	126
23	250GHz CW gyrotron oscillator for dynamic nuclear polarization in biological solid state NMR. Journal of Magnetic Resonance, 2007, 189, 251-279.	2.1	158
24	Efficient Low-Voltage Operation of a CW Gyrotron Oscillator at 233 GHz. IEEE Transactions on Plasma Science, 2007, 35, 27-30.	1.3	63
25	Continuous-wave operation of a 460-GHz second harmonic gyrotron oscillator. IEEE Transactions on Plasma Science, 2006, 34, 524-533.	1.3	128
26	Theory of heteronuclear decoupling in solid-state nuclear magnetic resonance using multipole-multimode Floquet theory. Journal of Chemical Physics, 2005, 122, 164503.	3.0	21
27	Corrugated waveguide and directional coupler for CW 250-GHz gyrotron DNP experiments. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1863-1869.	4.6	73
28	High-resolution molecular structure of a peptide in an amyloid fibril determined by magic angle spinning NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 711-716.	7.1	495