

Salvatore Mamone

List of Publications by Year in descending order

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56
papers

1,873
citations

218677

26
h-index

265206

42
g-index

59
all docs

59
docs citations

59
times ranked

1141
citing authors

#	ARTICLE	IF	CITATIONS
1	The dipolar endofullerene HF@C60. Nature Chemistry, 2016, 8, 953-957.	13.6	167
2	Quantum rotation of <i>ortho</i> and <i>para</i> -water encapsulated in a fullerene cage. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12894-12898.	7.1	135
3	Long-Lived Nuclear Spin States in Methyl Groups and Quantum-Rotor-Induced Polarization. Journal of the American Chemical Society, 2013, 135, 18746-18749.	13.7	93
4	Rotor in a cage: Infrared spectroscopy of an endohedral hydrogen-fullerene complex. Journal of Chemical Physics, 2009, 130, 081103.	3.0	90
5	Solid-state NMR of endohedral hydrogen@fullerene complexes. Physical Chemistry Chemical Physics, 2007, 9, 4879.	2.8	69
6	Interaction potential and infrared absorption of endohedral H ₂ in C ₆₀ . Journal of Chemical Physics, 2011, 134, 054507.	3.0	63
7	Over 50% ¹ H and ¹³ C Polarization for Generating Hyperpolarized Metabolites A <i>para</i> -Hydrogen Approach. ChemistryOpen, 2018, 7, 672-676.	1.9	63
8	Quantum Translator-Rotator: Inelastic Neutron Scattering of Dihydrogen Molecules Trapped inside Anisotropic Fullerene Cages. Physical Review Letters, 2009, 102, 013001.	7.8	61
9	Symmetry-breaking in the endofullerene H ₂ O@C ₆₀ revealed in the quantum dynamics of ortho and para-water: a neutron scattering investigation. Physical Chemistry Chemical Physics, 2014, 16, 21330-21339.	2.8	59
10	Theory and spectroscopy of an incarcerated quantum rotor: The infrared spectroscopy, inelastic neutron scattering and nuclear magnetic resonance of H ₂ @C ₆₀ at cryogenic temperature. Coordination Chemistry Reviews, 2011, 255, 938-948.	18.8	58
11	Nuclear spin conversion of water inside fullerene cages detected by low-temperature nuclear magnetic resonance. Journal of Chemical Physics, 2014, 140, 194306.	3.0	58
12	Inelastic neutron scattering of a quantum translator-rotator encapsulated in a closed fullerene cage: Isotope effects and translation-rotation coupling in $H_2 @ C_{60}$. Physical Review B, 2010, 82, .	3.2	57
13	Electrical detection of ortho@para conversion in fullerene-encapsulated water. Nature Communications, 2015, 6, 8112.	12.8	57
14	Theory of long-lived nuclear spin states in methyl groups and quantum-rotor induced polarisation. Journal of Chemical Physics, 2015, 142, 044506.	3.0	51
15	Pulsed Magnetic Resonance to Signal@Enhance Metabolites within Seconds by utilizing <i>para</i> -Hydrogen. ChemistryOpen, 2018, 7, 344-348.	1.9	47
16	Supercycled homonuclear dipolar decoupling sequences in solid-state NMR. Journal of Magnetic Resonance, 2009, 197, 14-19.	2.1	45
17	Inelastic neutron scattering investigations of the quantum molecular dynamics of a H ₂ molecule entrapped inside a fullerene cage. Physical Review B, 2012, 85, .	3.2	45
18	Infrared spectroscopy of endohedral HD and D ₂ in C ₆₀ . Journal of Chemical Physics, 2011, 135, 114511.	3.0	43

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19	Singlet-filtered NMR spectroscopy. <i>Science Advances</i> , 2020, 6, eaaz1955.	10.3	37
20	More Than 12% Polarization and 20-µs Lifetime of ¹⁵ N in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10692-10696.	13.8	36
21	A Hall effect angle detector for solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2008, 190, 135-141.	2.1	34
22	Estimation of internuclear couplings in the solid-state NMR of multiple-spin systems. Selective spin echoes and off-magic-angle sample spinning. <i>Chemical Physics Letters</i> , 2008, 456, 116-121.	2.6	33
23	Quantum rotation and translation of hydrogen molecules encapsulated inside C ₆₀ : temperature dependence of inelastic neutron scattering spectra. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110627.	3.4	32
24	Synthesis and characterisation of an open-cage fullerene encapsulating hydrogen fluoride. <i>Chemical Communications</i> , 2015, 51, 4993-4996.	4.1	32
25	Production of highly concentrated and hyperpolarized metabolites within seconds in high and low magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22849-22856.	2.8	30
26	Infrared spectroscopy of small-molecule endofullerenes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110631.	3.4	29
27	Synthesis and Properties of Open Fullerenes Encapsulating Ammonia and Methane. <i>ChemPhysChem</i> , 2018, 19, 266-276.	2.1	28
28	Symmetry-breaking in the H ₂ @C ₆₀ endofullerene revealed by inelastic neutron scattering at low temperature. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1998-2005.	2.8	25
29	Infrared spectroscopy of an endohedral water in fullerene. <i>Journal of Chemical Physics</i> , 2021, 154, 124311.	3.0	24
30	Nuclear hyperpolarization of (1- ¹³ C)-pyruvate in aqueous solution by proton-relayed side-arm hydrogenation. <i>Analyst</i> , 2021, 146, 1772-1778.	3.5	23
31	Nuclear spin singlet states as magnetic on/off probes in self-assembling systems. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22463-22467.	2.8	21
32	Rapidly Signal-Enhanced Metabolites for Atomic Scale Monitoring of Living Cells with Magnetic Resonance. <i>Chemistry Methods</i> , 2022, 2, .	3.8	21
33	More Than 12% Polarization and 20-µs Lifetime of ¹⁵ N in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water. <i>Angewandte Chemie</i> , 2018, 130, 10852-10856.	2.0	19
34	Experimental, theoretical and computational investigation of the inelastic neutron scattering spectrum of a homonuclear diatomic molecule in a nearly spherical trap: H ₂ @C ₆₀ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29369-29380.	2.8	17
35	Orientational Sampling Schemes Based on Four Dimensional Polytopes. <i>Symmetry</i> , 2010, 2, 1423-1449.	2.2	16
36	Nuclear singlet multimers (NUSIMERS) with long-lived singlet states. <i>Chemical Science</i> , 2019, 10, 413-417.	7.4	14

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37	Probing the C ₆₀ triplet state coupling to nuclear spins inside and out. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120475.	3.4	13
38	Å-A Field-Independent Method for the Rapid Generation of Hyperpolarized [¹³ C]Pyruvate in Clean Water Solutions for Biomedical Applications. Angewandte Chemie - International Edition, 0, , .	13.8	13
39	Anisotropic nuclear spin interactions in H ₂ O@C ₆₀ determined by solid-state NMR. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120102.	3.4	12
40	Nuclear Magnetic Resonance of Hydrogen Molecules Trapped inside C ₇₀ Fullerene Cages. ChemPhysChem, 2013, 14, 3121-3130.	2.1	11
41	The Endofullerene HF@C60: Inelastic Neutron Scattering Spectra from Quantum Simulations and Experiment, Validity of the Selection Rule, and Symmetry Breaking. Journal of Physical Chemistry Letters, 2019, 10, 5365-5371.	4.6	11
42	Accurate Determination of ¹ H- ¹⁵ N Dipolar Couplings Using Inaccurate Settings of the Magic Angle in Solid-State NMR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 4286-4290.	13.8	11
43	Nuclear Spin Singlet States in Photoactive Molecules: From Fluorescence/NMR Bimodality to a Bimolecular Switch for Spin Singlet States. Angewandte Chemie - International Edition, 2019, 58, 2879-2883.	13.8	11
44	Determination of methyl order parameters using solid state NMR under off magic angle spinning. Journal of Biomolecular NMR, 2019, 73, 471-475.	2.8	10
45	Localized singlet-filtered MRS in vivo. NMR in Biomedicine, 2021, 34, e4400.	2.8	9
46	Benzene at 1GHz. Magnetic field-induced fine structure. Journal of Magnetic Resonance, 2015, 258, 17-24.	2.1	8
47	Chemical shielding of H2O and HF encapsulated inside a C60 cage. Communications Chemistry, 2021, 4, .	4.5	7
48	¹ H NMR z-spectra of acetate methyl in stretched hydrogels: Quantum-mechanical description and Markov chain Monte Carlo relaxation-parameter estimation. Journal of Magnetic Resonance, 2015, 250, 29-36.	2.1	6
49	Accurate Determination of ¹ H- ¹⁵ N Dipolar Couplings Using Inaccurate Settings of the Magic Angle in Solid-State NMR Spectroscopy. Angewandte Chemie, 2019, 131, 4330-4334.	2.0	4
50	Early Divergence in Misfolding Pathways of Amyloid-β Peptides. ChemPhysChem, 2021, 22, 2158-2163.	2.1	4
51	Bimodal Fluorescence/Magnetic Resonance Molecular Probes with Extended Spin Lifetimes. Chemistry - A European Journal, 2022, 28, e202104158.	3.3	3
52	Hyperpolarization of ¹⁵ N in an amino acid derivative. RSC Advances, 2022, 12, 2282-2286.	3.6	3
53	Thermal history effects and methyl tunneling dynamics in a supramolecular complex of calixarene and para-xylene. Journal of Chemical Physics, 2008, 128, 144512.	3.0	2
54	Å-A Field-Independent Method for the Rapid Generation of Hyperpolarized [¹³ C]Pyruvate in Clean Water Solutions for Biomedical Applications. Angewandte Chemie, 0, , .	2.0	2

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55	Exotic nuclear spin behavior in dendritic macromolecules. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26349-26355.	2.8	1
56	Nuclear Spin Singlet States in Photoactive Molecules: From Fluorescence/NMR Bimodality to a Bimolecular Switch for Spin Singlet States. <i>Angewandte Chemie</i> , 2019, 131, 2905-2909.	2.0	0