Salvatore Mamone

List of Publications by Year
in descending order

56	1,873	218677	265206
papers	citations	26 h-index	42 g-index

59	59	59	1141
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bimodal Fluorescence/Magnetic Resonance Molecular Probes with Extended Spin Lifetimes. Chemistry - A European Journal, 2022, 28, e202104158.	3.3	3
2	Hyperpolarization of ¹⁵N in an amino acid derivative. RSC Advances, 2022, 12, 2282-2286.	3.6	3
3	Rapidly Signalâ€enhanced Metabolites for Atomic Scale Monitoring of Living Cells with Magnetic Resonance. Chemistry Methods, 2022, 2, .	3.8	21
4	Localized singletâ€filtered MRS in vivo. NMR in Biomedicine, 2021, 34, e4400.	2.8	9
5	Nuclear hyperpolarization of (1-¹³C)-pyruvate in aqueous solution by proton-relayed side-arm hydrogenation. Analyst, The, 2021, 146, 1772-1778.	3.5	23
6	Infrared spectroscopy of an endohedral water in fullerene. Journal of Chemical Physics, 2021, 154, 124311.	3.0	24
7	Early Divergence in Misfolding Pathways of Amyloidâ€Beta Peptides. ChemPhysChem, 2021, 22, 2158-2163.	2.1	4
8	Chemical shielding of H2O and HF encapsulated inside a C60 cage. Communications Chemistry, 2021, 4, .	4.5	7
9	Exotic nuclear spin behavior in dendritic macromolecules. Physical Chemistry Chemical Physics, 2021, 23, 26349-26355.	2.8	1
10	Singlet-filtered NMR spectroscopy. Science Advances, 2020, 6, eaaz1955.	10.3	37
11	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
12	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
13	Nuclear singlet multimers (NUSIMERs) with long-lived singlet states. Chemical Science, 2019, 10, 413-417.	7.4	14
14	Accurate Determination of ¹Hâ€¹⁵N Dipolar Couplings Using Inaccurate Settings of the Magic Angle in Solidâ€State NMR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 4286-4290.	13.8	11
15	Nuclear Spin Singlet States in Photoactive Molecules: From Fluorescence/NMR Bimodality to a Bimolecular Switch for Spin Singlet States. Angewandte Chemie, 2019, 131, 2905-2909.	2.0	0
16	Accurate Determination of ¹Hâ€¹⁵N Dipolar Couplings Using Inaccurate Settings of the Magic Angle in Solidâ€State NMR Spectroscopy. Angewandte Chemie, 2019, 131, 4330-4334.	2.0	4
17	Production of highly concentrated and hyperpolarized metabolites within seconds in high and low magnetic fields. Physical Chemistry Chemical Physics, 2019, 21, 22849-22856.	2.8	30
18	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

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19	Synthesis and Properties of Open Fullerenes Encapsulating Ammonia and Methane. ChemPhysChem, 2018, 19, 266-276.	2.1	28
20	More Than 12â€‰% Polarization and 20â€…Minute Lifetime of ¹⁵N in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water. Angewandte Chemie, 2018, 130, 10852-10856.	2.0	19
21	Over 50â€‰% ¹H and ¹³C Polarization for Generating Hyperpolarized Metabolitesâ€”A paraâ€Hydrogen Approach. ChemistryOpen, 2018, 7, 672-676.	1.9	63
22	Nuclear spin singlet states as magnetic on/off probes in self-assembling systems. Physical Chemistry Chemical Physics, 2018, 20, 22463-22467.	2.8	21
23	Pulsed Magnetic Resonance to Signalâ€Enhance Metabolites within Seconds by utilizing paraâ€Hydrogen. ChemistryOpen, 2018, 7, 344-348.	1.9	47
24	More Than 12â€‰% Polarization and 20â€…Minute Lifetime of ¹⁵N in a Choline Derivative Utilizing Parahydrogen and a Rhodium Nanocatalyst in Water. Angewandte Chemie - International Edition, 2018, 57, 10692-10696.	13.8	36
25	The dipolar endofullerene HF@C60. Nature Chemistry, 2016, 8, 953-957.	13.6	167
26	Experimental, theoretical and computational investigation of the inelastic neutron scattering spectrum of a homonuclear diatomic molecule in a nearly spherical trap: H₂@C₆₀. Physical Chemistry Chemical Physics, 2016, 18, 29369-29380.	2.8	17
27	Symmetry-breaking in the H₂@C₆₀ endofullerene revealed by inelastic neutron scattering at low temperature. Physical Chemistry Chemical Physics, 2016, 18, 1998-2005.	2.8	25
28	Synthesis and characterisation of an open-cage fullerene encapsulating hydrogen fluoride. Chemical Communications, 2015, 51, 4993-4996.	4.1	32
29	Electrical detection of orthoâ€“para conversion in fullerene-encapsulated water. Nature Communications, 2015, 6, 8112.	12.8	57
30	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
31	Benzene at 1GHz. Magnetic field-induced fine structure. Journal of Magnetic Resonance, 2015, 258, 17-24.	2.1	8
32	1H NMR z-spectra of acetate methyl in stretched hydrogels: Quantumâ€“mechanical description and Markov chain Monte Carlo relaxation-parameter estimation. Journal of Magnetic Resonance, 2015, 250, 29-36.	2.1	6
33	Symmetry-breaking in the endofullerene H₂O@C₆₀ 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
34	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
35	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
36	Quantum rotation and translation of hydrogen molecules encapsulated inside C ₆₀ : temperature dependence of inelastic neutron scattering spectra. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110627.	3.4	32

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37	Infrared spectroscopy of small-molecule endofullerenes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110631.	3.4	29
38	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
39	Nuclear Magnetic Resonance of Hydrogen Molecules Trapped inside C₇₀ Fullerene Cages. ChemPhysChem, 2013, 14, 3121-3130.	2.1	11
40	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
41	Inelastic neutron scattering investigations of the quantum molecular dynamics of a H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>molecule entrapped inside a fullerene cage. Physical Review B, 2012, 85, .	3.2	45
42	Quantum rotation of ortho and para -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
43	Interaction potential and infrared absorption of endohedral H2 in C60. Journal of Chemical Physics, 2011, 134, 054507.	3.0	63
44	Infrared spectroscopy of endohedral HD and D2 in C60. Journal of Chemical Physics, 2011, 135, 114511.	3.0	43
45	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
46	Inelastic neutron scattering of a quantum translator-rotator encapsulated in a closed fullerene cage: Isotope effects and translation-rotation coupling in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub><mml:mo>@</mml:mo><mml:mrow xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow. Physical Review B, 2010, 82, .	3.2	57
47	Orientational Sampling Schemes Based on Four Dimensional Polytopes. Symmetry, 2010, 2, 1423-1449.	2.2	16
48	Rotor in a cage: Infrared spectroscopy of an endohedral hydrogen-fullerene complex. Journal of Chemical Physics, 2009, 130, 081103.	3.0	90
49	Supercycled homonuclear dipolar decoupling sequences in solid-state NMR. Journal of Magnetic Resonance, 2009, 197, 14-19.	2.1	45
50	Quantum Translator-Rotator: Inelastic Neutron Scattering of Dihydrogen Molecules Trapped inside Anisotropic Fullerene Cages. Physical Review Letters, 2009, 102, 013001.	7.8	61
51	A Hall effect angle detector for solid-state NMR. Journal of Magnetic Resonance, 2008, 190, 135-141.	2.1	34
52	Estimation of internuclear couplings in the solid-state NMR of multiple-spin systems. Selective spin echoes and off-magic-angle sample spinning. Chemical Physics Letters, 2008, 456, 116-121.	2.6	33
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	Solid-state NMR of endohedral hydrogenâ€“fullerene complexes. Physical Chemistry Chemical Physics, 2007, 9, 4879.	2.8	69

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55	Â-A Fieldâ€•Independent Method for the Rapid Generation of Hyperpolarized [1â€•13C]Pyruvate in Clean Water Solutions for Biomedical Applications. Angewandte Chemie - International Edition, 0, , .	13.8	13
56	Â-A Fieldâ€•Independent Method for the Rapid Generation of Hyperpolarized [1â€•13C]Pyruvate in Clean Water Solutions for Biomedical Applications. Angewandte Chemie, 0, , .	2.0	2