

# Giovanni Li Manni

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34  
papers

2,850  
citations

20  
h-index

47  
g-index

47  
ext. papers

3,424  
ext. citations

5.8  
avg. IF

5.05  
L-index

#	Paper	IF	Citations
34	Enhancement of superexchange due to synergetic breathing and hopping in corner-sharing cuprates. <i>Nature Physics</i> , <b>2022</b> , 18, 190-195	16.2	1
33	Resolution of Low-Energy States in Spin-Exchange Transition-Metal Clusters: Case Study of Singlet States in [Fe(III)S] Cubanes. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 4727-4740	2.8	10
32	Chemical insights into the electronic structure of Fe(II) porphyrin using FCIQMC, DMRG, and generalized active spaces. <i>International Journal of Quantum Chemistry</i> , <b>2021</b> , 121, e26454	2.1	11
31	Modeling magnetic interactions in high-valent trinuclear [MnO] complexes through highly compressed multi-configurational wave functions. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 19766-19780	3.6	2
30	Quenched Lewis Acidity: Studies on the Medium Dependent Fluorescence of Zinc(II) Complexes. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 15158-15170	4.8	2
29	Spin-Pure Stochastic-CASSCF via GUGA-FCIQMC Applied to Iron-Sulfur Clusters. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 5684-5703	6.4	9
28	Compression of Spin-Adapted Multiconfigurational Wave Functions in Exchange-Coupled Polynuclear Spin Systems. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 2202-2215	6.4	16
27	NECI: N-Electron Configuration Interaction with an emphasis on state-of-the-art stochastic methods. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 034107	3.9	28
26	Foundation of Multi-Configurational Quantum Chemistry <b>2020</b> , 133-203		3
25	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 5925-5964	5.4	310
24	Role of Valence and Semicore Electron Correlation on Spin Gaps in Fe(II)-Porphyrins. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 1492-1497	6.4	32
23	Understanding the Mechanism Stabilizing Intermediate Spin States in Fe(II)-Porphyrin. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 4935-4947	2.8	53
22	Multiconfiguration Pair-Density Functional Theory: A New Way To Treat Strongly Correlated Systems. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 66-73	24.3	175
21	Second-Order Perturbation Theory for Generalized Active Space Self-Consistent-Field Wave Functions. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 3208-13	6.4	39
20	Combining the Complete Active Space Self-Consistent Field Method and the Full Configuration Interaction Quantum Monte Carlo within a Super-CI Framework, with Application to Challenging Metal-Porphyrins. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 1245-58	6.4	134
19	Separated-pair approximation and separated-pair pair-density functional theory. <i>Chemical Science</i> , <b>2016</b> , 7, 2399-2413	9.4	37
18	Comment on "Fe <sub>2</sub> : As simple as a Herculean labour. Neutral (Fe <sub>2</sub> ), cationic (Fe <sub>2</sub> <sup>+</sup> ), and anionic (Fe <sub>2</sub> <sup>-</sup> ) species" [J. Chem. Phys. 142, 244304 (2015)]. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 027101	3.9	1

17	Molcas 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. <i>Journal of Computational Chemistry</i> , <b>2016</b> , 37, 506-41	3.5	1047
16	Systematic Expansion of Active Spaces beyond the CASSCF Limit: A GASSCF/SplitGAS Benchmark Study. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 3010-21	6.4	41
15	Multiconfiguration pair-density functional theory: barrier heights and main group and transition metal energetics. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 82-90	6.4	44
14	Oxidative stretching of metal-metal bonds to their limits. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 4777-90	5.1	30
13	Multiconfiguration Pair-Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 3669-80	6.4	246
12	A two-coordinate manganese(0) complex with an unsupported Mn-Mg bond: allowing access to low coordinate homo- and heterobimetallic compounds. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 5283-6	16.4	52
11	Controversial electronic structures and energies of Fe <sub>2</sub> , Fe <sub>2</sub> (+), and Fe <sub>2</sub> (-) resolved by RASPT2 calculations. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 204309	3.9	16
10	SplitGAS Method for Strong Correlation and the Challenging Case of Cr <sub>2</sub> . <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 3375-84	6.4	86
9	Assessing metal-metal multiple bonds in Cr-Cr, Mo-Mo, and W-W compounds and a hypothetical U-U compound: a quantum chemical study comparing DFT and multireference methods. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 1737-49	4.8	49
8	Computational insights into uranium complexes supported by redox-active $\beta$ -diimine ligands. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 2058-64	5.1	22
7	The generalized active space concept in multiconfigurational self-consistent field methods. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 044128	3.9	178
6	Strong correlation treated via effective hamiltonians and perturbation theory. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 034114	3.9	52
5	On the analysis of the Cr-Cr multiple bond in several classes of dichromium compounds. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 5216-22	5.1	87
4	Hydrogenolysis of hydroxymatairesinol on Y derived catalysts: A computational study. <i>Journal of Molecular Catalysis A</i> , <b>2010</b> , 333, 136-144		7
3	Systematic conformational search analysis of the SRR and RRR epimers of 7-hydroxymatairesinol. <i>Journal of Physical Organic Chemistry</i> , <b>2010</b> , 23, 141-147	2.1	5
2	Structural and Kinetic DFT Characterization of Materials to Rationalize Catalytic Performance. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 444-455	2.3	10
1	Molecular-Level Characterization of Heterogeneous Catalytic Systems by Algorithmic Time Dependent Monte Carlo. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 431-443	2.3	3