

Lorenzo Stella

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,190
citations

516710

16
h-index

377865

34
g-index

38
all docs

38
docs citations

38
times ranked

1855
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-space grids and the Octopus code as tools for the development of new simulation approaches for electronic systems. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31371-31396.	2.8	376
2	Performance of Nonlocal Optics When Applied to Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8941-8949.	3.1	103
3	Picosecond metrology of laser-driven proton bursts. <i>Nature Communications</i> , 2016, 7, 10642.	12.8	80
4	Strong electronic correlation in the hydrogen chain: A variational Monte Carlo study. <i>Physical Review B</i> , 2011, 84, .	3.2	73
5	Generalized Langevin equation: An efficient approach to nonequilibrium molecular dynamics of open systems. <i>Physical Review B</i> , 2014, 89, .	3.2	54
6	Evaluation of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($0 \leq x < 0.4$) synthesised via a modified sol-gel method as mediators for magnetic fluid hyperthermia. <i>CrystEngComm</i> , 2016, 18, 407-416.	2.6	52
7	Optimization by quantum annealing: Lessons from simple cases. <i>Physical Review B</i> , 2005, 72, .	3.2	50
8	A multiconfigurational time-dependent Hartree-Fock method for excited electronic states. I. General formalism and application to open-shell states. <i>Journal of Chemical Physics</i> , 2011, 134, 244101.	3.0	48
9	Modelling non-adiabatic processes using correlated electron-ion dynamics. <i>European Physical Journal B</i> , 2010, 77, 305-329.	1.5	33
10	State of the art in composition, fabrication, characterization, and modeling methods of cement-based thermoelectric materials for low-temperature applications. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110361.	16.4	24
11	The Investigation of Flory-Huggins Interaction Parameters for Amorphous Solid Dispersion Across the Entire Temperature and Composition Range. <i>Pharmaceutics</i> , 2019, 11, 420.	4.5	23
12	Robust nonadiabatic molecular dynamics for metals and insulators. <i>Journal of Chemical Physics</i> , 2007, 127, 214104.	3.0	21
13	Applications of the generalized Langevin equation: Towards a realistic description of the baths. <i>Physical Review B</i> , 2015, 91, .	3.2	21
14	Monte Carlo studies of quantum and classical annealing on a double well. <i>Physical Review B</i> , 2006, 73, .	3.2	19
15	A multiconfigurational time-dependent Hartree-Fock method for excited electronic states. II. Coulomb interaction effects in single conjugated polymer chains. <i>Journal of Chemical Physics</i> , 2011, 134, 244102.	3.0	18
16	Drug-Rich Phases Induced by Amorphous Solid Dispersion: Arbitrary or Intentional Goal in Oral Drug Delivery?. <i>Pharmaceutics</i> , 2021, 13, 889.	4.5	17
17	Nonequilibrium processes from generalized Langevin equations: Realistic nanoscale systems connected to two thermal baths. <i>Physical Review B</i> , 2016, 93, .	3.2	14
18	Quantum annealing of an Ising spin-glass by Green's function Monte Carlo. <i>Physical Review E</i> , 2007, 75, 036703.	2.1	13

#	ARTICLE	IF	CITATIONS
19	Correlated electron-ion dynamics in metallic systems. Computational Materials Science, 2008, 44, 16-20.	3.0	12
20	Synthesis, characterisation and study of magnetocaloric effects (enhanced and reduced) in manganate perovskites. Materials Research Bulletin, 2017, 88, 69-77.	5.2	12
21	Ionic liquids tethered to a preorganised 1,2-diamide motif for extraction of lanthanides. Green Chemistry, 2019, 21, 2583-2588.	9.0	12
22	An introduction to zwitterionic salts. Green Chemistry, 2017, 19, 4007-4011.	9.0	11
23	Multicharge zwitterionic molecules: Hydration, kosmotropicity and anti-fouling potential. Journal of Colloid and Interface Science, 2020, 562, 391-399.	9.4	10
24	Effect of Phlorotannins from Brown Seaweeds on the In Vitro Digestibility of Pig Feed. Animals, 2020, 10, 2193.	2.3	9
25	Analog of Rabi oscillations in resonant electron-ion systems. Journal of Chemical Physics, 2011, 134, 194105.	3.0	8
26	Projected equations of motion approach to hybrid quantum/classical dynamics in dielectric-metal composites. Physical Review B, 2016, 94, .	3.2	8
27	c-number quantum generalized Langevin equation for an open system. Physical Review B, 2016, 94, .	3.2	8
28	Mixing regime simulation and cellulose particle tracing in a stacked frame photocatalytic reactor. Chemical Engineering Journal, 2017, 313, 301-308.	12.7	8
29	Development and Optimization of an Immobilized Photocatalytic System within a Stacked Frame Photoreactor (SFPR) Using Light Distribution and Fluid Mixing Simulation Coupled with Experimental Validation. Industrial & Engineering Chemistry Research, 2019, 58, 2727-2740.	3.7	8
30	Improving the crystallinity and magnetocaloric effect of the perovskite $\text{La}_{0.65}\text{Sr}_{0.35}\text{MnO}_3$ using microwave irradiation. CrystEngComm, 2017, 19, 3776-3791.	2.6	7
31	Characterization and Performance Enhancement of Cement-Based Thermoelectric Materials. Polymers, 2022, 14, 2311.	4.5	7
32	Theory of phonon dissipation in the conduction of stressed Au nanowires. Surface Science, 2004, 566-568, 430-435.	1.9	6
33	Optimization through quantum annealing: theory and some applications. Contemporary Physics, 2006, 47, 195-208.	1.8	6
34	Nonequilibrium generalised Langevin equation for the calculation of heat transport properties in model 1D atomic chains coupled to two 3D thermal baths. Journal of Chemical Physics, 2017, 146, 164103.	3.0	6
35	Rocking Behaviour of Multi-Block Columns Subjected to Pulse-Type Ground Motion Accelerations. Open Construction and Building Technology Journal, 2016, 10, 150-157.	0.7	6
36	On transition rates in surface hopping. Journal of Chemical Physics, 2012, 137, 234113.	3.0	4

#	ARTICLE	IF	CITATIONS
37	An excitonic model for the electron-hole plasma relaxation in proton-irradiated insulators. European Physical Journal D, 2021, 75, 1.	1.3	3
38	Modelling a Bistable System Strongly Coupled to a Debye Bath: A Quasiclassical Approach Based on the Generalised Langevin Equation. Computational Methods in Science and Technology, 2017, 23, .	0.3	0