Lorenzo Stella

List of Publications by Year
in descending order

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	Characterization and Performance Enhancement of Cement-Based Thermoelectric Materials. Polymers, 2022, 14, 2311.	4.5	7
2	State of the art in composition, fabrication, characterization, and modeling methods of cement-based thermoelectric materials for low-temperature applications. Renewable and Sustainable Energy Reviews, 2021, 137, 110361.	16.4	24
3	Drug-Rich Phases Induced by Amorphous Solid Dispersion: Arbitrary or Intentional Goal in Oral Drug Delivery?. Pharmaceutics, 2021, 13, 889.	4.5	17
4	An excitonic model for the electronâ€“hole plasma relaxation in proton-irradiated insulators. European Physical Journal D, 2021, 75, 1.	1.3	3
5	Multicharge zwitterionic molecules: Hydration, kosmotropicity and anti-fouling potential. Journal of Colloid and Interface Science, 2020, 562, 391-399.	9.4	10
6	Effect of Phlorotannins from Brown Seaweeds on the In Vitro Digestibility of Pig Feed. Animals, 2020, 10, 2193.	2.3	9
7	The Investigation of Floryâ€“Huggins Interaction Parameters for Amorphous Solid Dispersion Across the Entire Temperature and Composition Range. Pharmaceutics, 2019, 11, 420.	4.5	23
8	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
9	Ionic liquids tethered to a preorganised 1,2-diamide motif for extraction of lanthanides. Green Chemistry, 2019, 21, 2583-2588.	9.0	12
10	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
11	Improving the crystallinity and magnetocaloric effect of the perovskite La_{0.65}Sr_{0.35}MnO₃ using microwave irradiation. CrystEngComm, 2017, 19, 3776-3791.	2.6	7
12	Synthesis, characterisation and study of magnetocaloric effects (enhanced and reduced) in manganate perovskites. Materials Research Bulletin, 2017, 88, 69-77.	5.2	12
13	Mixing regime simulation and cellulose particle tracing in a stacked frame photocatalytic reactor. Chemical Engineering Journal, 2017, 313, 301-308.	12.7	8
14	An introduction to zwitterionic salts. Green Chemistry, 2017, 19, 4007-4011.	9.0	11
15	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
16	Picosecond metrology of laser-driven proton bursts. Nature Communications, 2016, 7, 10642.	12.8	80
17	Projected equations of motion approach to hybrid quantum/classical dynamics in dielectric-metal composites. Physical Review B, 2016, 94, .	3.2	8
18	c-number quantum generalized Langevin equation for an open system. Physical Review B, 2016, 94, .	3.2	8

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19	Nonequilibrium processes from generalized Langevin equations: Realistic nanoscale systems connected to two thermal baths. Physical Review B, 2016, 93, .	3.2	14
20	Evaluation of La_{1â^'x}Sr_xMnO₃ (0 â‰¤ x < 0.4) synthesised via a modified solâ€“gel method as mediators for magnetic fluid hyperthermia. CrystEngComm, 2016, 18, 407-416.	2.6	52
21	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
22	Applications of the generalized Langevin equation: Towards a realistic description of the baths. Physical Review B, 2015, 91, .	3.2	21
23	Real-space grids and the Octopus code as tools for the development of new simulation approaches for electronic systems. Physical Chemistry Chemical Physics, 2015, 17, 31371-31396.	2.8	376
24	Generalized Langevin equation: An efficient approach to nonequilibrium molecular dynamics of open systems. Physical Review B, 2014, 89, .	3.2	54
25	Performance of Nonlocal Optics When Applied to Plasmonic Nanostructures. Journal of Physical Chemistry C, 2013, 117, 8941-8949.	3.1	103
26	On transition rates in surface hopping. Journal of Chemical Physics, 2012, 137, 234113.	3.0	4
27	A multiconfigurational time-dependent Hartree-Fock method for excited electronic states. I. General formalism and application to open-shell states. Journal of Chemical Physics, 2011, 134, 244101.	3.0	48
28	A multiconfigurational time-dependent Hartree-Fock method for excited electronic states. II. Coulomb interaction effects in single conjugated polymer chains. Journal of Chemical Physics, 2011, 134, 244102.	3.0	18
29	Analog of Rabi oscillations in resonant electron-ion systems. Journal of Chemical Physics, 2011, 134, 194105.	3.0	8
30	Strong electronic correlation in the hydrogen chain: A variational Monte Carlo study. Physical Review B, 2011, 84, .	3.2	73
31	Modelling non-adiabatic processes using correlated electron-ion dynamics. European Physical Journal B, 2010, 77, 305-329.	1.5	33
32	Correlated electron-ion dynamics in metallic systems. Computational Materials Science, 2008, 44, 16-20.	3.0	12
33	Robust nonadiabatic molecular dynamics for metals and insulators. Journal of Chemical Physics, 2007, 127, 214104.	3.0	21
34	Quantum annealing of an Ising spin-glass by Greenâ€™s function Monte Carlo. Physical Review E, 2007, 75, 036703.	2.1	13
35	Optimization through quantum annealing: theory and some applications. Contemporary Physics, 2006, 47, 195-208.	1.8	6
36	Monte Carlo studies of quantum and classical annealing on a double well. Physical Review B, 2006, 73, .	3.2	19

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37	Optimization by quantum annealing: Lessons from simple cases. Physical Review B, 2005, 72, .	3.2	50
38	Theory of phonon dissipation in the conduction of stressed Au nanowires. Surface Science, 2004, 566-568, 430-435.	1.9	6