Bruno Escribano

List of Publications by Year
in descending order

16 papers	595 citations	759233 12 h-index	940533 16 g-index
16 all docs	16 docs citations	16 times ranked	635 citing authors

#	Article	IF	Citations
1	From Chemical Gardens to Chemobrionics. Chemical Reviews, 2015, 115, 8652-8703.	47.7	216
2	Spiral and target patterns in bivalve nacre manifest a natural excitable medium from layer growth of a biological liquid crystal. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10499-10504.	7.1	63
3	Chemical-Garden Formation, Morphology, and Composition. I. Effect of the Nature of the Cations. Langmuir, 2011, 27, 3286-3293.	3.5	62
4	Assessment of van der Waals inclusive density functional theory methods for layered electroactive materials. Physical Chemistry Chemical Physics, 2017, 19, 10133-10139.	2.8	43
5	Chemical gardens from silicates and cations of group 2: a comparative study of composition, morphology and microstructure. Physical Chemistry Chemical Physics, 2011, 13, 1030-1036.	2.8	42
6	Brinicles as a Case of Inverse Chemical Gardens. Langmuir, 2013, 29, 7655-7660.	3.5	33
7	Chemical-Garden Formation, Morphology, and Composition. II. Chemical Gardens in Microgravity. Langmuir, 2011, 27, 3294-3300.	3.5	31
8	The Mesoscale Morphologies of Ice Films: Porous and Biomorphic Forms of Ice under Astrophysical Conditions. Astrophysical Journal, 2008, 687, 1406-1414.	4.5	19
9	Constant pressure hybrid Monte Carlo simulations in GROMACS. Journal of Molecular Modeling, 2014, 20, 2487.	1.8	15
10	Crystal growth as an excitable medium. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 2866-2876.	3.4	13
11	Multiple-time-stepping generalized hybrid Monte Carlo methods. Journal of Computational Physics, 2015, 280, 1-20.	3.8	13
12	Revealing the Mechanism of Sodium Diffusion in Na_xFePO₄ Using an Improved Force Field. Journal of Physical Chemistry C, 2018, 122, 8065-8075.	3.1	12
13	Enhancing sampling in atomistic simulations of solid-state materials for batteries: a focus on olivine $$hbox {NaFePO}_4$$ NaFePO 4. Theoretical Chemistry Accounts, 2017, 136, 1.	1.4	10
14	The beeTetragonulabuilds its comb like a crystal. Journal of the Royal Society Interface, 2020, 17, 20200187.	3.4	8
15	Chemical Gardens Under Mars Conditions: Imaging Chemical Garden Growth In Situ in an Environmental Scanning Electron Microscope. Geophysical Research Letters, 2021, 48, e2021GL092883.	4.0	8
16	Combining stochastic and deterministic approaches within high efficiency molecular simulations. Open Mathematics, 2013, 11, .	1.0	7