Guido Ori

List of Publications by Year
in descending order

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48	780	567144 15	552653 26
papers	citations	h-index	g-index

48	48	48	1099
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ionic liquid confined in silica nanopores: molecular dynamics in the isobaricâ€“isothermal ensemble. Molecular Physics, 2014, 112, 1350-1361.	0.8	71
2	Double phase transfer of gold nanorods for surface functionalization and entrapment into PEG-based nanocarriers. Chemical Communications, 2009, , 5874.	2.2	61
3	Molecular dynamics simulation of amorphous HfO₂for resistive RAM applications. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 065006.	0.8	49
4	Comprehensive physical modeling of forming and switching operations in HfO2 RRAM devices. , 2011, , .		44
5	Role of the van der Waals interactions and impact of the exchange-correlation functional in determining the structure of glassyGeTe4. Physical Review B, 2015, 92, .	1.1	43
6	Insight into the structure of vanadium containing glasses: A molecular dynamics study. Journal of Non-Crystalline Solids, 2011, 357, 2571-2579.	1.5	41
7	Origin of structural analogies and differences between the atomic structures of GeSe4 and GeS4 glasses: A first principles study. Journal of Chemical Physics, 2015, 143, 034504.	1.2	35
8	First-principles molecular dynamics study of glassy GeS<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>: Atomic structure and bonding properties. Physical Review B, 2013, 88, .	1.1	33
9	Structure and Dynamics of Ionic Liquids Confined in Amorphous Porous Chalcogenides. Langmuir, 2015, 31, 6742-6751.	1.6	32
10	Thermal conductivity of glassy GeTe₄by first-principles molecular dynamics. Physical Chemistry Chemical Physics, 2017, 19, 9729-9732.	1.3	30
11	Click Chemistry for the Assembly of Gold Nanorods and Silver Nanoparticles. Chemistry - A European Journal, 2011, 17, 9052-9056.	1.7	25
12	Pressure-induced structural changes in the network-forming isostatic glass<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>GeSe</mml:mi><mml:mn>4</mml:mn></mml:msub></mm An investigation by neutron diffraction and first-principles molecular dynamics. Physical Review B, 2016, 93, .	1.1	24
13	Atomic-scale structure of the glassy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ge</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mr phase change material: A quantitative assessment via first-principles molecular dynamics. Physical Review B, 2017, 96, .	1.1	24
14	Evaluating the Critical Roles of Precursor Nature and Water Content When Tailoring Magnetic Nanoparticles for Specific Applications. ACS Applied Nano Materials, 2018, 1, 4306-4316.	2.4	22
15	Layered Simple Hydroxides Functionalized by Fluoreneâ€Phosphonic Acids: Synthesis, Interface Theoretical Insights, and Magnetoelectric Effect. Advanced Functional Materials, 2017, 27, 1703576.	7.8	20
16	Organo-modified bentonite for gentamicin topical application: Interlayer structure and in vivo skin permeation. Applied Clay Science, 2018, 158, 158-168.	2.6	20
17	Surface of glassyGeS2: A model based on a first-principles approach. Physical Review B, 2014, 90, .	1.1	16
18	Comparison of Precipitated Calcium Carbonate/Polylactic Acid and Halloysite/Polylactic Acid Nanocomposites. Journal of Nanomaterials, 2015, 2015, 1-11.	1.5	16

#	Article	IF	Citations
19	On the occurrence of size effects in the calculation of thermal conductivity by first-principles molecular dynamics: The case of glassy GeTe4. Journal of Non-Crystalline Solids, 2018, 498, 190-193.	1.5	13
20	Cooperative and Reversible Anisotropic Assembly of Gold Nanoparticles by Modulation of Noncovalent Interparticle Interactions. ChemNanoMat, 2017, 3, 874-878.	1.5	12
21	Microstructural characterisation and electrical properties of multiwalled carbon nanotubes/glass-ceramic nanocomposites. Journal of Materials Chemistry, 2010, 20, 308-313.	6.7	11
22	Nanoporous chalcogenides for adsorption and gas separation. Physical Chemistry Chemical Physics, 2016, 18, 13449-13458.	1.3	11
23	Thermal conductivity and transport modes in glassy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>GeTe</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> by first-principles molecular dynamics. Physical Review Materials, 2019, 3, .	0.9	11
24	Thermal conductivity of amorphous SiO2 by first-principles molecular dynamics. Journal of Non-Crystalline Solids, 2022, 581, 121434.	1.5	10
25	Impact of dispersion forces on the atomic structure of a prototypical network-forming disordered system: The case of liquid GeSe2. Journal of Chemical Physics, 2017, 147, 044504.	1.2	9
26	Immobilization of monolayer protected lipophilic gold nanorods on a glass surface. Nanotechnology, 2012, 23, 055605.	1.3	8
27	First-principles study of the atomic structure of glassy Ga10Ge15Te75. Journal of Non-Crystalline Solids, 2018, 498, 338-344.	1.5	8
28	The role of dispersion forces on the atomic structure of glassy chalcogenides: The case of GeSe4 and GeS4. Journal of Non-Crystalline Solids, 2018, 499, 167-172.	1.5	8
29	Sensitivity to Dispersion Forces in First-Principles Modeling of Disordered Chalcogenides. Frontiers in Materials, 2018, 5, .	1.2	7
30	Thermal resistance of an interfacial molecular layer by first-principles molecular dynamics. Journal of Chemical Physics, 2020, 153, 074704.	1.2	7
31	Atomic Structure of Glassy GeTe₄ as a Playground to Assess the Performances of Density Functional Schemes Accounting for Dispersion Forces. Journal of Physical Chemistry B, 2020, 124, 11273-11279.	1.2	7
32	First-principles thermal transport in amorphous Ge₂Sb₂Te₅ at the nanoscale. RSC Advances, 2021, 11, 10747-10752.	1.7	6
33	First-Principles Study of Dissociation Processes for the Synthesis of Fe and Co Oxide Nanoparticles. Journal of Chemical Theory and Computation, 2018, 14, 225-235.	2.3	6
34	Bentonite-Based Organoclays as Innovative Flame Retardants Agents for SBS Copolymer. Journal of Nanoscience and Nanotechnology, 2008, 8, 6316-6324.	0.9	5
35	The role of 2D/3D spin-polarization interactions in hybrid copper hydroxide acetate: new insights from first-principles molecular dynamics. Beilstein Journal of Nanotechnology, 2017, 8, 857-860.	1.5	4
36	The structure and dipolar properties of CO2 adsorbed in a porous glassy chalcogel: Insights from first-principles molecular dynamics. Journal of Non-Crystalline Solids, 2018, 498, 288-293.	1.5	4

#	Article	IF	Citations
37	Chalcogenide glasses as a playground for the application of first-principles molecular dynamics to disordered materials. Solid State Sciences, 2019, 95, 105925.	1.5	4
38	Chalcogenide glasses for innovation in applied science: fundamental issues and new insights. Journal Physics D: Applied Physics, 2020, 53, 033002.	1.3	4
39	Heat transport in disordered network forming materials: Size effects and existence of propagative modes. Computational Materials Science, 2020, 177, 109607.	1.4	4
40	Quantitative assessment of the structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ge</mml:mi><mml:mn>20</mml:mn></mml:msub><mml:mo>(</mml:mo><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math> chalcohalide glass by first-principles molecular dynamics. Physical Review B, 2021, 103, .	1.1	4
41	First-Principles Modeling of Binary Chalcogenides: Recent Accomplishments and New Achievements. Springer Series in Materials Science, 2015, , 313-344.	0.4	3
42	Structural, dynamical, and electronic properties of the ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. Physical Chemistry Chemical Physics, 2022, 24, 9597-9607.	1.3	3
43	Atomic structure of amorphous SiN: Combining Carâ€“Parrinello and Bornâ€“Oppenheimer first-principles molecular dynamics. Computational Materials Science, 2022, 211, 111555.	1.4	3
44	Molecular Modeling of Glassy Surfaces. Springer Series in Materials Science, 2015, , 345-365.	0.4	1
45	Making Computer Materials Real: The Predictive Power of First-Principles Molecular Dynamics. Springer Series in Materials Science, 2020, , 3-21.	0.4	1
46	Flame retardant SBSâ€“clay nanocomposites. , 0, , 360-382.		0
47	Tridentate complexes of group 4 bearing bis-aryloxide N-heterocyclic carbene ligand: Structure, spin density and charge states. Chemical Physics Letters, 2021, 781, 138888.	1.2	0
48	Assessing the Versatility of Molecular Modelling as a Strategy for Predicting Gas Adsorption Properties of Chalcogels. Springer Series in Materials Science, 2020, , 23-37.	0.4	0