

JosÃ© Pedro Rino

List of Publications by Year in descending order

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87
papers

3,640
citations

257450

24
h-index

128289

60
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88
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88
docs citations

88
times ranked

2810
citing authors

#	ARTICLE	IF	CITATIONS
1	Decoding crystal growth kinetics and structural evolution in supercooled ZnSe by molecular dynamics simulation. <i>Computational Materials Science</i> , 2022, 212, 111598.	3.0	4
2	Molecular dynamics simulations of spontaneous and seeded nucleation and theoretical calculations for zinc selenide. <i>Computational Materials Science</i> , 2021, 187, 110124.	3.0	19
3	An interaction potential for zinc selenide: A molecular dynamics study. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	1
4	The race between relaxation and nucleation in supercooled liquid and glassy BaS – A molecular dynamics study. <i>Computational Materials Science</i> , 2021, 192, 110417.	3.0	6
5	Relaxation, crystal nucleation, kinetic spinodal and Kauzmann temperature in supercooled zinc selenide. <i>Computational Materials Science</i> , 2021, 193, 110421.	3.0	6
6	Neural Network Quantum Molecular Dynamics, Intermediate Range Order in GeSe ₂ , and Neutron Scattering Experiments. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6020-6028.	4.6	2
7	Direct determination of Lennard-Jones crystal surface free energy by a computational cleavage method. <i>Journal of Chemical Physics</i> , 2021, 155, 094101.	3.0	4
8	Unveiling nucleation dynamics by seeded and spontaneous crystallization in supercooled liquids. <i>Computational Materials Science</i> , 2021, 199, 110802.	3.0	9
9	Unveiling relaxation and crystal nucleation interplay in supercooled germanium liquid. <i>Acta Materialia</i> , 2021, 220, 117303.	7.9	8
10	Crystal Nucleation Kinetics in Supercooled Germanium: MD Simulations versus Experimental Data. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7979-7988.	2.6	23
11	Evidence for the formation of metallic In after laser irradiation of InP. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	4
12	Successful test of the classical nucleation theory by molecular dynamic simulations of BaS. <i>Computational Materials Science</i> , 2019, 161, 99-106.	3.0	30
13	On the transferability of interaction potentials for condensed phases of silicon. <i>Journal of Molecular Liquids</i> , 2019, 285, 488-499.	4.9	5
14	Shock-induced microstructural response of mono- and nanocrystalline SiC ceramics. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	24
15	Plane shock loading on mono- and nano-crystalline silicon carbide. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	22
16	Diffusivity, Interfacial Free Energy, and Crystal Nucleation in a Supercooled Lennard-Jones Liquid. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28884-28894.	3.1	40
17	Finite size effects on a core-shell model of barium titanate. <i>Computational Materials Science</i> , 2017, 130, 98-102.	3.0	3
18	On the use of atomistic simulations to aid bulk metallic glasses structural elucidation with solid-state NMR. <i>Scientific Reports</i> , 2017, 7, 9305.	3.3	2

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19	Structural and dynamic properties of vitreous and crystalline barium disilicate: molecular dynamics simulation and Raman scattering experiments. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 435301.	2.8	14
20	Domain wall contribution to the nonlinear dielectric response: effective potential model. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 465301.	2.8	3
21	An interaction potential for barium sulfide: A molecular dynamics study. <i>Computational Materials Science</i> , 2014, 92, 334-342.	3.0	8
22	Ferroelectric Domain Wall as Stretched Membrane: Nonlinear Dielectric Response and Tunability. <i>Ferroelectrics</i> , 2014, 461, 29-37.	0.6	3
23	Diffusion mechanisms in lithium disilicate melt by molecular dynamics simulation. <i>Journal of Non-Crystalline Solids</i> , 2014, 402, 91-95.	3.1	12
24	Nonlinear dielectric response and transient current: An effective potential for ferroelectric domain wall displacement. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	10
25	Tuning hole mobility in InP nanowires. <i>Applied Physics Letters</i> , 2012, 101, 182104.	3.3	1
26	Low-temperature elastic anomalies in CaTiO ₃ : dynamical characterization. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 475401.	1.8	5
27	Glass Forming Ability and Alloying Effect of a Noble-Metal-Based Glass Former. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1356-1359.	2.6	6
28	Atomistic simulation of the deformation mechanism during nanoindentation of gamma titanium aluminide. <i>Computational Materials Science</i> , 2012, 62, 1-5.	3.0	17
29	Tailoring Electronic Transparency of Twin-Plane 1D Superlattices. <i>ACS Nano</i> , 2011, 5, 5519-5525.	14.6	21
30	Dynamic behaviour of silicon carbide nanowires under high and extreme strain rates: a molecular dynamics study. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 055405.	2.8	33
31	Interaction potential for aluminum nitride: A molecular dynamics study of mechanical and thermal properties of crystalline and amorphous aluminum nitride. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	62
32	Temperature and Pinning Effects on Driving a 2D Electron System on a Helium Film: A Numerical Study. <i>Journal of Low Temperature Physics</i> , 2010, 160, 58-67.	1.4	4
33	An interatomic potential for aluminum arsenide: A molecular dynamics study. <i>Computational Materials Science</i> , 2010, 49, 270-275.	3.0	3
34	Crystallization kinetics of a 2D system using molecular dynamics simulation. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 455106.	1.8	1
35	Interaction potential for indium phosphide: a molecular dynamics and first-principles study of the elastic constants, generalized stacking fault and surface energies. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 095002.	1.8	25
36	Molecular dynamics simulation of fast dislocations in copper. <i>Acta Materialia</i> , 2009, 57, 1843-1855.	7.9	47

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37	The structural inhomogeneity of lead-cadmium fluoride systems and its implications. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 335107.	1.8	1
38	Molecular-dynamics prediction of the thermal conductivity of thin InP nanowires: Similarities to Si. <i>Physical Review B</i> , 2009, 80, .	3.2	12
39	Atomistic damage mechanisms during hypervelocity projectile impact on AlN: A large-scale parallel molecular dynamics simulation study. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 1955-1988.	4.8	50
40	Interaction potentials for alumina and molecular dynamics simulations of amorphous and liquid alumina. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	139
41	Structural ordering in Cd _x Pb _{1-x} F ₂ alloys: A combined molecular dynamics and solid state NMR study. <i>Journal of Chemical Physics</i> , 2008, 128, 224705.	3.0	10
42	Molecular dynamics simulations on the local order of liquid and amorphous ZnTe. <i>Journal of Chemical Physics</i> , 2008, 128, 184704.	3.0	4
43	Accelerating dislocations to transonic and supersonic speeds in anisotropic metals. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	40
44	Insulator-conductor behavior of a two-dimensional electron system on a helium film. <i>Physical Review B</i> , 2008, 77, .	3.2	2
45	Reply to the Comment by I. I. Buchinskaya and P. P. Fedorov. <i>Europhysics Letters</i> , 2008, 83, 16002.	2.0	1
46	Dynamical structure factor of two-dimensional electrons over a helium film. <i>Low Temperature Physics</i> , 2008, 34, 388-391.	0.6	0
47	Interaction potential for silicon carbide: A molecular dynamics study of elastic constants and vibrational density of states for crystalline and amorphous silicon carbide. <i>Journal of Applied Physics</i> , 2007, 101, 103515.	2.5	283
48	Oscilações paramétricas: uma simulação numérica. <i>Revista Brasileira De Ensino De Fisica</i> , 2007, 29, 71-78.	0.2	1
49	Structural characterization of deformed crystals by analysis of common atomic neighborhood. <i>Computer Physics Communications</i> , 2007, 177, 518-523.	7.5	567
50	Vibrational properties of InP under pressure: a molecular-dynamics study. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 331-335.	1.5	5
51	Structural phase transformations in InP under pressure: A molecular-dynamics study. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 239-243.	1.5	9
52	Energetics of phase transitions in BaO through DFT calculations with norm-conserving pseudopotentials: LDA vs. GGA results. <i>Computational Materials Science</i> , 2006, 37, 349-354.	3.0	24
53	A dynamic pathway for the alkaline earth oxides B1 to B2 transformation. <i>Europhysics Letters</i> , 2006, 76, 836-841.	2.0	11
54	High-pressure phases of InP: An ab initio and molecular-dynamics study. <i>Applied Physics Letters</i> , 2006, 88, 161919.	3.3	15

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55	Análise de um estilingue e espirais de caderno: um estudo de caso. Revista Brasileira De Ensino De Física, 2006, 28, 195-199.	0.2	0
56	Molecular dynamics simulation of the structural and dynamical properties of crystalline BaO. Physical Review B, 2005, 71, .	3.2	13
57	Interaction potential for ZnTe: A molecular dynamics study. Physical Review B, 2005, 72, .	3.2	10
58	The eutectic composition on Cd x Pb 1 - x F 2 phase diagram: A molecular-dynamics study. Europhysics Letters, 2005, 71, 770-775.	2.0	5
59	Structural phase transition and dynamical properties of PbTiO3 simulated by molecular dynamics. Journal of Physics Condensed Matter, 2005, 17, 5771-5783.	1.8	20
60	Interaction potential for InSb: a molecular dynamics study. Brazilian Journal of Physics, 2004, 34, 347.	1.4	4
61	Molecular dynamics simulation on devitrification: Isothermal devitrification and thermodynamics of PbF2 glasses. Journal of Chemical Physics, 2004, 121, 7413-7420.	3.0	3
62	90° domain wall relaxation and frequency dependence of the coercive field in the ferroelectric switching process. Journal of Applied Physics, 2004, 95, 2646-2653.	2.5	110
63	Polarization Switching Relaxation in Pb(Zr,Ti)O3 Ceramics. Integrated Ferroelectrics, 2004, 62, 115-118.	0.7	0
64	Short- and intermediate-range structural correlations in amorphous silicon carbide: A molecular dynamics study. Physical Review B, 2004, 70, .	3.2	65
65	Molecular dynamics study of amorphous InSb. Journal of Non-Crystalline Solids, 2004, 348, 17-21.	3.1	7
66	Simulation of the Polarization Switching in Ferroelectrics with Dipolar Defects Through the Landau-Theory-Based Lattice Model. Ferroelectrics, 2004, 300, 173-176.	0.6	1
67	Molecular dynamics study of structural, mechanical, and vibrational properties of crystalline and amorphous Ga1-xInxAAs alloys. Journal of Applied Physics, 2003, 94, 3840-3848.	2.5	28
68	Structural, mechanical, and vibrational properties of Ga1-xInxAAs alloys: A molecular dynamics study. Applied Physics Letters, 2003, 82, 1057-1059.	3.3	27
69	Structural phase transformation in InSb: a molecular dynamics simulation. Physical Review B, 2002, 66, .	3.2	12
70	Pressure-induced structural transformation in GaAs: a molecular-dynamics study. Physical Review B, 2002, 65, .	3.2	29
71	Um potencial de interação para o estudo de materiais e simulções por dinâmica molecular. Química Nova, 2001, 24, 838-845.	0.3	5
72	Topology of amorphous gallium arsenide on intermediate length scales: A molecular dynamics study. Journal of Applied Physics, 2000, 87, 7708-7711.	2.5	34

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73	Molecular Dynamics Simulation of Structural Transformation in Silicon Carbide under Pressure. Physical Review Letters, 2000, 84, 3338-3341.	7.8	183
74	Melting of classical two-dimensional electrons on a helium film: A molecular-dynamics study. Physical Review B, 1996, 54, 7046-7051.	3.2	11
75	Theory of electron transport in a two-dimensional layer on the solid hydrogen surface. Physical Review B, 1995, 51, 11068-11073.	3.2	4
76	Structural transformation in densified silica glass: A molecular-dynamics study. Physical Review B, 1994, 50, 118-131.	3.2	107
77	Dynamic structure factor and vibrational properties of SiO ₂ glass. Physical Review B, 1993, 48, 9359-9368.	3.2	73
78	Structure of rings in vitreous SiO ₂ . Physical Review B, 1993, 47, 3053-3062.	3.2	216
79	Charged-hard-sphere system: A self-consistent-field approximation. Physical Review E, 1993, 48, 1375-1378.	2.1	2
80	Structural transformation, intermediate-range order, and dynamical behavior of SiO ₂ glass at high pressures. Physical Review Letters, 1993, 71, 3146-3149.	7.8	95
81	Intermediate-range order in permanently densified vitreous SiO ₂ : A neutron-diffraction and molecular-dynamics study. Physical Review B, 1991, 43, 1194-1197.	3.2	274
82	Bragg Intensities and Diffuse Scattering in Ag ₂ Se: A Molecular Dynamics Study. , 1991, , 171-187.		1
83	Interaction potential for SiO ₂ : A molecular-dynamics study of structural correlations. Physical Review B, 1990, 41, 12197-12209.	3.2	539
84	Structural and dynamical correlations in Ag ₂ Se: A molecular dynamics study of superionic and molten phases. Journal of Chemical Physics, 1988, 89, 7542-7555.	3.0	80
85	Properties of surface electrons on a helium film: Effects of the film thickness and substrate. Physical Review B, 1984, 29, 2584-2588.	3.2	13
86	The two-dimensional polystyrene spheres in the hypernetted chain approximation. Journal of Physics C: Solid State Physics, 1982, 15, L893-L898.	1.5	1
87	Interaction potentials for alumina and molecular dynamics simulations of amorphous and liquid alumina. , 0, .		1