Normand Mousseau

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 189
 6,109
 44
 72

 papers
 citations
 h-index
 g-index

 209
 6,591
 4.3
 5.92

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
189	Activation R elaxation Technique: An efficient way to find minima and saddle points of potential energy surfaces. <i>Computational Materials Science</i> , 2022 , 209, 111363	3.2	O
188	Polyphenol-Peptide Interactions in Mitigation of Alzheimer's Disease: Role of Biosurface-Induced Aggregation. <i>Journal of Alzheimern</i> Disease, 2021 , 81, 33-55	4.3	O
187	Corilagin and 1,3,6-Trigalloy-ED-glucose: potential inhibitors of SARS-CoV-2 variants. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14873-14888	3.6	3
186	The energy landscape governs ductility in disordered materials. <i>Materials Horizons</i> , 2021 , 8, 1242-1252	14.4	7
185	Capturing the Iron Carburization Mechanisms from the Surface to Bulk. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 28569-28579	3.8	6
184	Identifying flow defects in amorphous alloys using machine learning outlier detection methods. <i>Scripta Materialia</i> , 2020 , 186, 185-189	5.6	17
183	Order and disorder at the C-face of SiC: A hybrid surface reconstruction. <i>Applied Physics Letters</i> , 2020 , 116, 141605	3.4	1
182	Simulation of Single Particle Displacement Damage in SilkGex AlloysInteraction of Primary Particles With the Material and Generation of the Damage Structure. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 1273-1283	1.7	3
181	Off-Lattice Kinetic Monte Carlo Methods 2020 , 715-743		2
180	Atomistic Kinetic Monte Carlo and Solute Effects 2020 , 2437-2456		
179	Kinetic Monte Carlo Simulations of Irradiation Effects 2020 , 754-778		4
178	Finding Reaction Pathways and Transition States: r-ARTn and d-ARTn as an Efficient and Versatile Alternative to String Approaches. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 6726-6734	6.4	9
177	Enthalpy-entropy compensation of atomic diffusion originates from softening of low frequency phonons. <i>Nature Communications</i> , 2020 , 11, 3977	17.4	7
176	Elucidating the role of extended surface defects at Fe surfaces on CO adsorption and dissociation. <i>Applied Surface Science</i> , 2019 , 491, 792-798	6.7	7
175	Is Hydrogen Diffusion along Grain Boundaries Fast or Slow? Atomistic Origin and Mechanistic Modeling. <i>Physical Review Letters</i> , 2019 , 122, 215501	7.4	16
174	Off-Lattice Kinetic Monte Carlo Methods 2019 , 1-29		2
173	ART_data_analyzer: Automating parallelized computations to study the evolution of materials. <i>SoftwareX</i> , 2019 , 9, 238-243	2.7	5

172	Mitigating Alzheimer's Disease with Natural Polyphenols: A Review. <i>Current Alzheimer Research</i> , 2019 , 16, 529-543	3	27
171	. IEEE Transactions on Nuclear Science, 2018 , 65, 724-731	1.7	8
170	Carbon diffusion paths and segregation at high-angle tilt grain boundaries in Fe studied by using a kinetic activation-relation technique. <i>Physical Review B</i> , 2018 , 97,	3.3	11
169	Interaction between interstitial carbon atoms and a [] <1 1 1> self-interstitial atoms loop in an iron matrix: a combined DFT, off lattice KMC and MD study. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 335901	1.8	1
168	Study of point defects diffusion in nickel using kinetic activation-relaxation technique. <i>Acta Materialia</i> , 2018 , 144, 679-690	8.4	16
167	Atomistic Kinetic Monte Carlo and Solute Effects 2018 , 1-20		1
166	Long-time point defect diffusion in ordered nickel-based binary alloys: How small kinetic differences can lead to completely long-time structural evolution. <i>Materialia</i> , 2018 , 4, 575-584	3.2	6
165	Off-Lattice Kinetic Monte Carlo Methods 2018 , 1-29		
164	Benchmarking the performance of plane-wave vs. localized orbital basis set methods in DFT modeling of metal surface: a case study for Fe-(110). <i>Journal of Computational Science</i> , 2018 , 29, 163-16	5 7 3·4	4
163	Carbon adsorption on and diffusion through the Fe(110) surface and in bulk: Developing a new strategy for the use of empirical potentials in complex material set-ups. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600408	1.3	13
162	Algorithmic developments of the kinetic activation-relaxation technique: Accessing long-time kinetics of larger and more complex systems. <i>Journal of Chemical Physics</i> , 2017 , 147, 152712	3.9	10
161	Strain-driven diffusion process during silicon oxidation investigated by coupling density functional theory and activation relaxation technique. <i>Journal of Chemical Physics</i> , 2017 , 147, 054701	3.9	3
160	Structural and thermodynamical properties of early human amylin oligomers using replica exchange molecular dynamics: mutation effect of three key residues F15, H18 and F23. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31290-31299	3.6	8
159	Energy landscape and diffusion kinetics of lithiated silicon: A kinetic activation-relaxation technique study. <i>Physical Review B</i> , 2017 , 96,	3.3	9
158	The role of emerging grain boundary at iron surface, temperature and hydrogen on metal dusting initiation. <i>Acta Materialia</i> , 2017 , 135, 340-347	8.4	8
157	Diffusion mechanisms of C in 100, 110 and 111 Fe surfaces studied using kinetic activation-relaxation technique. <i>Acta Materialia</i> , 2017 , 136, 303-314	8.4	11
156	Simulation of Single Particle Displacement Damage in Silicon Part II: Generation and Long-Time Relaxation of Damage Structure. <i>IEEE Transactions on Nuclear Science</i> , 2017 , 64, 141-148	1.7	39
155	Stimulating a Canadian narrative for climate. <i>Facets</i> , 2017 , 2, 131-149	2.3	3

154	Na 3 Fe 2 (SO 4) 2 (SO 3 N) as a potential high capacity cathode material. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016 , 211, 185-190	3.1	1
153	Free-Energy Landscape of the Amino-Terminal Fragment of Huntingtin in Aqueous Solution. <i>Biophysical Journal</i> , 2016 , 110, 1075-88	2.9	11
152	Diffusion properties of Fell systems studied by using kinetic activation delaxation technique. <i>Computational Materials Science</i> , 2016 , 112, 96-106	3.2	17
151	Insights on finite size effects in ab initio study of CO adsorption and dissociation on Fe 110 surface. Journal of Applied Physics, 2016 , 120, 055301	2.5	14
150	Influence of surface vacancy defects on the carburisation of Fe 110 surface by carbon monoxide. Journal of Chemical Physics, 2016 , 145, 044710	3.9	10
149	Diffusion of point defects in crystalline silicon using the kinetic activation-relaxation technique method. <i>Physical Review B</i> , 2015 , 91,	3.3	25
148	Following atomistic kinetics on experimental timescales with the kinetic Activation Relaxation Technique. <i>Computational Materials Science</i> , 2015 , 100, 111-123	3.2	21
147	Strong Long-Range Relaxations of Structural Defects in Graphene Simulated Using a New Semiempirical Potential. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9646-9655	3.8	18
146	Probing the Huntingtin 1-17 membrane anchor on a phospholipid bilayer by using all-atom simulations. <i>Biophysical Journal</i> , 2015 , 108, 1187-98	2.9	16
145	Probing Potential Energy Surface Exploration Strategies for Complex Systems. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 1970-7	6.4	1
144	Amyloid Protein and Alzheimer's Disease: When Computer Simulations Complement Experimental Studies. <i>Chemical Reviews</i> , 2015 , 115, 3518-63	68.1	426
143	Aggregation process of All-40with non-Allmyloid component of by nuclein. <i>Journal of Physics:</i> Conference Series, 2015 , 640, 012008	0.3	
142	A novel intercalation cathode material for sodium-based batteries. <i>Electrochemistry Communications</i> , 2015 , 52, 9-12	5.1	1
141	Distinct helix propensities and membrane interactions of human and rat IAPP(1-19) monomers in anionic lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 3366-76	3.4	25
140	The OPEP protein model: from single molecules, amyloid formation, crowding and hydrodynamics to DNA/RNA systems. <i>Chemical Society Reviews</i> , 2014 , 43, 4871-93	58.5	118
139	Atomistic mechanisms of huntingtin N-terminal fragment insertion on a phospholipid bilayer revealed by molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 1409-27	4.2	10
138	Strain effects and intermixing at the Si surface: Importance of long-range elastic corrections in first-principles calculations. <i>Physical Review B</i> , 2014 , 90,	3.3	8
137	Understanding long-time vacancy aggregation in iron: A kinetic activation-relaxation technique study. <i>Physical Review B</i> , 2014 , 90,	3.3	33

136	Early oligomerization stages for the non-amyloid component of	3.9	11
135	Oligomerization of Huntingtin N-Terminal Fragment on a Phospholipid Bilayer Revealed by Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2014 , 106, 99a-100a	2.9	1
134	Kinetics of Amyloid Growth. <i>Modecular Medicine and Medicinal</i> , 2013 , 209-237		1
133	Contribution of vacancies to relaxation in amorphous materials: A kinetic activation-relaxation technique study. <i>Physical Review B</i> , 2013 , 87,	3.3	30
132	Replenish and relax: explaining logarithmic annealing in ion-implanted c-Si. <i>Physical Review Letters</i> , 2013 , 111, 105502	7.4	29
131	Long-time relaxation of ion-bombarded silicon studied with the kinetic activation-relaxation technique: Microscopic description of slow aging in a disordered system. <i>Physical Review B</i> , 2013 , 88,	3.3	24
130	Tunable magnetic states in hexagonal boron nitride sheets. <i>Applied Physics Letters</i> , 2012 , 101, 132405	3.4	25
129	Molecular dynamics simulations of the bacterial ABC transporter SAV1866 in the closed form. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 2934-42	3.4	34
128	Structures of All 7-42 trimers in isolation and with five small-molecule drugs using a hierarchical computational procedure. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 8412-22	3.4	92
127	All-atom stability and oligomerization simulations of polyglutamine nanotubes with and without the 17-amino-acid N-terminal fragment of the Huntingtin protein. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 12168-79	3.4	11
126	Large loop conformation sampling using the activation relaxation technique, ART-nouveau method. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012 , 80, 1883-94	4.2	4
125	Distinct dimerization for various alloforms of the amyloid-beta protein: A[1-40), A[1-42), and A[1-40)(D23N). <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4043-55	3.4	90
124	Kinetics of amyloid aggregation: a study of the GNNQQNY prion sequence. <i>PLoS Computational Biology</i> , 2012 , 8, e1002782	5	35
123	Comment on "Mechanism of void nucleation and growth in bcc Fe: atomistic simulations at experimental time scales". <i>Physical Review Letters</i> , 2012 , 108, 219601; author reply 219602	7.4	17
122	Understanding the EF-hand closing pathway using non-biased interatomic potentials. <i>Journal of Chemical Physics</i> , 2012 , 136, 035101	3.9	14
121	First stages of silicon oxidation with the activation relaxation technique. <i>Physical Review B</i> , 2012 , 86,	3.3	6
120	Optimization of the Kinetic Activation-Relaxation Technique, an off-lattice and self-learning kinetic Monte-Carlo method. <i>Journal of Physics: Conference Series</i> , 2012 , 341, 012007	0.3	14
119	The Activation-Relaxation Technique: ART Nouveau and Kinetic ART. <i>Journal of Atomic, Molecular, and Optical Physics,</i> 2012 , 2012, 1-14		41

118	Holographic multiscale method used with non-biased atomistic forcefields for simulation of large transformations in protein. <i>Journal of Physics: Conference Series</i> , 2012 , 341, 012015	0.3	1
117	Energy landscape of small clusters of self-interstitial dumbbells in iron. <i>Physical Review B</i> , 2011 , 83,	3.3	69
116	Kinetic activation-relaxation technique. <i>Physical Review E</i> , 2011 , 84, 046704	2.4	108
115	Use of Umbrella Sampling to Calculate the Entrance/Exit Pathway for Z-Pro-Prolinal Inhibitor in Prolyl Oligopeptidase. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 1583-94	6.4	27
114	Distinct Morphologies for Amyloid Beta Protein Monomer: All-40, All-42, and All-40(D23N). <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 2584-92	6.4	71
113	Structure and thermodynamics of amylin dimer studied by Hamiltonian-temperature replica exchange molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 3146-54	3.4	61
112	Amorphous silicon under mechanical shear deformations: Shear velocity and temperature effects. <i>Physical Review B</i> , 2011 , 83,	3.3	7
111	Crystallization of amorphous silicon induced by mechanical shear deformations. <i>Physical Review B</i> , 2011 , 84,	3.3	15
110	A multiscale approach to characterize the early aggregation steps of the amyloid-forming peptide GNNQQNY from the yeast prion sup-35. <i>PLoS Computational Biology</i> , 2011 , 7, e1002051	5	68
109	Optimized energy landscape exploration using the ab initio based activation-relaxation technique. Journal of Chemical Physics, 2011 , 135, 034102	3.9	72
108	Spontaneous formation of polyglutamine nanotubes with molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2010 , 132, 165102	3.9	22
107	Evolution of the potential-energy surface of amorphous silicon. <i>Physical Review Letters</i> , 2010 , 105, 0455	5 9 34	46
106	Effect of the disulfide bond on the monomeric structure of human amylin studied by combined Hamiltonian and temperature replica exchange molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7071-7	3.4	60
105	Thermodynamics and dynamics of amyloid peptide oligomerization are sequence dependent. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 75, 954-63	4.2	102
104	Structures and thermodynamics of Alzheimer's amyloid-beta Abeta(16-35) monomer and dimer by replica exchange molecular dynamics simulations: implication for full-length Abeta fibrillation. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7668-75	3.4	92
103	Replica exchange molecular dynamics simulations of coarse-grained proteins in implicit solvent. Journal of Physical Chemistry B, 2009 , 113, 267-74	3.4	67
102	The beta-strand-loop-beta-strand conformation is marginally populated in beta2-microglobulin (20-41) peptide in solution as revealed by replica exchange molecular dynamics simulations. <i>Biophysical Journal</i> , 2008 , 95, 510-7	2.9	11
101	Self-assembly of the beta2-microglobulin NHVTLSQ peptide using a coarse-grained protein model reveals a beta-barrel species. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 4410-8	3.4	71

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100	The complex folding pathways of protein A suggest a multiple-funnelled energy landscape. <i>Journal of Chemical Physics</i> , 2008 , 128, 045101	3.9	16
99	Energy landscapes of the monomer and dimer of the Alzheimer's peptide Abeta(1-28). <i>Journal of Chemical Physics</i> , 2008 , 128, 125108	3.9	24
98	Role of the region 23-28 in Abeta fibril formation: insights from simulations of the monomers and dimers of Alzheimer's peptides Abeta40 and Abeta42. <i>Current Alzheimer Research</i> , 2008 , 5, 244-50	3	91
97	Numerical characterization of the Ga interstitial self-diffusion mechanisms in GaAs. <i>Journal of Applied Physics</i> , 2008 , 103, 113502	2.5	9
96	Kinetic activation-relaxation technique: An off-lattice self-learning kinetic Monte Carlo algorithm. <i>Physical Review B</i> , 2008 , 78,	3.3	114
95	Self-assembly of amyloid-forming peptides by molecular dynamics simulations. <i>Frontiers in Bioscience - Landmark</i> , 2008 , 13, 5681-92	2.8	37
94	Exploring energy landscapes of protein folding and aggregation. <i>Frontiers in Bioscience - Landmark</i> , 2008 , 13, 4495-516	2.8	12
93	Ab initio study of the diffusion mechanisms of gallium in a silicon matrix. <i>European Physical Journal B</i> , 2008 , 64, 165-172	1.2	11
92	Ab-initio simulations of self-diffusion mechanisms in semiconductors. <i>Physica B: Condensed Matter</i> , 2007 , 401-402, 658-661	2.8	4
91	Ab initio characterization of arsenic vacancy diffusion pathways in GaAs with SIEST-A-RT. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 86, 309-312	2.6	7
90	Probing amyloid fibril formation of the NFGAIL peptide by computer simulations. <i>Journal of Chemical Physics</i> , 2007 , 126, 065101	3.9	29
89	Sampling small-scale and large-scale conformational changes in proteins and molecular complexes. Journal of Chemical Physics, 2007, 126, 105101	3.9	7
88	Gallium self-interstitial relaxation in GaAs: An ab initio characterization. <i>Physical Review B</i> , 2007 , 76,	3.3	19
87	Self-organized criticality in the intermediate phase of rigidity percolation. <i>Physical Review E</i> , 2007 , 75, 056108	2.4	26
86	Computational simulations of the early steps of protein aggregation. <i>Prion</i> , 2007 , 1, 3-8	2.3	59
85	Coarse-grained protein molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2007 , 126, 025101	3.9	84
84	The conformations of the amyloid-beta (21-30) fragment can be described by three families in solution. <i>Journal of Chemical Physics</i> , 2006 , 125, 084911	3.9	60
83	Self-organization with equilibration: a model for the intermediate phase in rigidity percolation. <i>Physical Review E</i> , 2006 , 74, 016116	2.4	54

82	Thermally activated charge reversibility of gallium vacancies in GaAs. <i>Journal of Applied Physics</i> , 2006 , 100, 083521	2.5	11
81	Charge-dependent migration pathways for the Ga vacancy in GaAs. <i>Physical Review B</i> , 2006 , 74,	3.3	8
80	Exploiting memory in event-based simulations. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 4424-4429	3.9	3
79	ARTIST: an activated method in internal coordinate space for sampling protein energy landscapes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 63, 967-75	4.2	13
78	Structures of soluble amyloid oligomers from computer simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 65, 180-91	4.2	52
77	Aggregating the amyloid Abeta(11-25) peptide into a four-stranded beta-sheet structure. <i>Proteins:</i> Structure, Function and Bioinformatics, 2006 , 65, 877-88	4.2	21
76	Following the aggregation of amyloid-forming peptides by computer simulations. <i>Journal of Chemical Physics</i> , 2005 , 122, 174904	3.9	57
75	Exploring the early steps of amyloid peptide aggregation by computers. <i>Accounts of Chemical Research</i> , 2005 , 38, 885-91	24.3	81
74	Self-vacancies in gallium arsenide: An ab initio calculation. <i>Physical Review B</i> , 2005 , 71,	3.3	51
73	Liquid II quid phase transition in Stillinger Weber silicon. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 2269-2279	1.8	35
7 ²	Activated sampling in complex materials at finite temperature: the properly obeying probability activation-relaxation technique. <i>Journal of Chemical Physics</i> , 2005 , 123, 244707	3.9	4
71	Nucleation and crystallization process of silicon using the Stillinger-Weber potential. <i>Physical Review B</i> , 2005 , 71,	3.3	34
70	Navigation and analysis of the energy landscape of small proteins using the activation-relaxation technique. <i>Physical Biology</i> , 2005 , 2, S101-7	3	6
69	Exploring the early steps of aggregation of amyloid-forming peptide KFFE. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S5047-S5054	1.8	10
68	Binary continuous random networks. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S5183-S5190	1.8	8
67	Pathway complexity of Alzheimer's beta-amyloid Abeta16-22 peptide assembly. <i>Structure</i> , 2004 , 12, 12	4 § :55	121
66	Complex folding pathways in a simple beta-hairpin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 56, 464-74	4.2	76
65	In silico assembly of Alzheimer's Abeta16-22 peptide into beta-sheets. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11509-16	16.4	125

(2001-2004)

64	Sampling the self-assembly pathways of KFFE hexamers. <i>Biophysical Journal</i> , 2004 , 87, 3648-56	2.9	69
63	Sampling the diffusion paths of a neutral vacancy in silicon with quantum mechanical calculations. <i>Physical Review B</i> , 2004 , 70,	3.3	70
62	Exploring the Folding and Aggregation Mechanisms of Amyloid-Forming Peptides by Computer Simulations 2004 , 379-381		
61	Numerical Studies Of The Dynamics Of Silicon: Relaxation, Nucleation And Energy Landscape. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 762, 1111		
60	Relationship between dynamical heterogeneities and stretched exponential relaxation. <i>Physical Review E</i> , 2003 , 68, 041110	2.4	14
59	Sampling the complex energy landscape of a simple Ehairpin. <i>Journal of Chemical Physics</i> , 2003 , 119, 6403-6406	3.9	54
58	Energy landscape of relaxed amorphous silicon. <i>Physical Review B</i> , 2003 , 68,	3.3	35
57	Characterization of the stretched-exponential trap-time distributions in one-dimensional coupled map lattices. <i>Physical Review E</i> , 2002 , 66, 066205	2.4	8
56	Exploring the energy landscape of proteins: A characterization of the activation-relaxation technique. <i>Journal of Chemical Physics</i> , 2002 , 117, 11379-11387	3.9	46
55	Comment on B oson peak in amorphous silicon: A numerical study [] <i>Physical Review B</i> , 2002 , 66,	3.3	5
54	Stretched-exponential dynamics in a chain of coupled chaotic oscillators. <i>Europhysics Letters</i> , 2002 , 60, 827-833	1.6	8
53	Recent developments in the study of continuous random networks. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002 , 82, 171-183		7
52	Crystallization study of model tetrahedral semiconductors. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 6627-6638	1.8	15
51	Sampling activated mechanisms in proteins with the activation-relaxation technique. <i>Journal of Molecular Graphics and Modelling</i> , 2001 , 19, 78-86	2.8	25
50	MODELS OF PARACRYSTALLINE SILICON WITH A DEFECT-FREE BANDGAP. <i>International Journal of Modern Physics B</i> , 2001 , 15, 3253-3257	1.1	7
50	·	0.7	7
	Modern Physics B, 2001 , 15, 3253-3257 Diffusion in Lennard-Jones Glasses: Simulation Studies of the Activation Parameters for Collective		

46	Realistic models of paracrystalline silicon. <i>Physical Review B</i> , 2001 , 63,	3.3	48
45	Fast bond-transposition algorithms for generating covalent amorphous structures. <i>Current Opinion in Solid State and Materials Science</i> , 2001 , 5, 497-502	12	9
44	The activationEelaxation technique: an efficient algorithm for sampling energy landscapes. <i>Computational Materials Science</i> , 2001 , 20, 285-292	3.2	33
43	Fitting the Stillinger Weber potential to amorphous silicon. <i>Journal of Non-Crystalline Solids</i> , 2001 , 282, 248-255	3.9	136
42	Basic mechanisms of structural relaxation and diffusion in amorphous silicon. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 664, 2811		1
41	Characterization of the Activation-Relaxation Technique: Recent Results on Models of Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 677, 841		1
40	Numerical studies of the vibrational isocoordinate rule in chalcogenide glasses. <i>European Physical Journal B</i> , 2000 , 17, 667-671	1.2	5
39	High-quality continuous random networks. <i>Physical Review B</i> , 2000 , 62, 4985-4990	3.3	206
38	Approximate ab initio calculations of electronic structure of amorphous silicon. <i>Physical Review B</i> , 2000 , 62, 15307-15310	3.3	26
37	Elementary mechanisms governing the dynamics of silica. <i>Journal of Chemical Physics</i> , 2000 , 112, 960-9	9 64 .9	24
37	Elementary mechanisms governing the dynamics of silica. <i>Journal of Chemical Physics</i> , 2000 , 112, 960-990. Optimal activation and diffusion paths of perfect events in amorphous silicon. <i>Physical Review B</i> , 2000 , 62, 15680-15685	96 4 .9	16
	Optimal activation and diffusion paths of perfect events in amorphous silicon. <i>Physical Review B</i> ,		
36	Optimal activation and diffusion paths of perfect events in amorphous silicon. <i>Physical Review B</i> , 2000 , 62, 15680-15685 Activated mechanisms in amorphous silicon: An activation-relaxation-technique study. <i>Physical</i>	3.3	16
36 35	Optimal activation and diffusion paths of perfect events in amorphous silicon. <i>Physical Review B</i> , 2000 , 62, 15680-15685 Activated mechanisms in amorphous silicon: An activation-relaxation-technique study. <i>Physical Review B</i> , 2000 , 61, 1898-1906 Dynamics of lennard-jones clusters: A characterization of the activation-relaxation technique.	3.3	16 68
36 35 34	Optimal activation and diffusion paths of perfect events in amorphous silicon. <i>Physical Review B</i> , 2000 , 62, 15680-15685 Activated mechanisms in amorphous silicon: An activation-relaxation-technique study. <i>Physical Review B</i> , 2000 , 61, 1898-1906 Dynamics of lennard-jones clusters: A characterization of the activation-relaxation technique. <i>Physical Review E</i> , 2000 , 62, 7723-8 Dependence of the vibrational spectra of amorphous silicon on the defect concentration and ring	3·3 3·3 2·4	16 68 199
36 35 34 33	Optimal activation and diffusion paths of perfect events in amorphous silicon. <i>Physical Review B</i> , 2000 , 62, 15680-15685 Activated mechanisms in amorphous silicon: An activation-relaxation-technique study. <i>Physical Review B</i> , 2000 , 61, 1898-1906 Dynamics of lennard-jones clusters: A characterization of the activation-relaxation technique. <i>Physical Review E</i> , 2000 , 62, 7723-8 Dependence of the vibrational spectra of amorphous silicon on the defect concentration and ring distribution. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 9647-9658 Exploring structural mechanisms in disordered materials using the activation-relaxation technique.	3.3 3.3 2.4 1.8	16 68 199 30
36 35 34 33 32	Optimal activation and diffusion paths of perfect events in amorphous silicon. <i>Physical Review B</i> , 2000 , 62, 15680-15685 Activated mechanisms in amorphous silicon: An activation-relaxation-technique study. <i>Physical Review B</i> , 2000 , 61, 1898-1906 Dynamics of lennard-jones clusters: A characterization of the activation-relaxation technique. <i>Physical Review E</i> , 2000 , 62, 7723-8 Dependence of the vibrational spectra of amorphous silicon on the defect concentration and ring distribution. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 9647-9658 Exploring structural mechanisms in disordered materials using the activation-relaxation technique. <i>Computer Physics Communications</i> , 1999 , 121-122, 206-209 Exploring high-dimensional energy landscapes. <i>Computing in Science and Engineering</i> , 1999 , 1,	3.3 3.3 2.4 1.8 4.2	16 68 199 30 4

28	Traveling through potential energy landscapes of disordered materials: The activation-relaxation technique. <i>Physical Review E</i> , 1998 , 57, 2419-2424	2.4	182
27	Identification of Relaxation and Diffusion Mechanisms in Amorphous Silicon. <i>Physical Review Letters</i> , 1998 , 81, 1865-1868	7.4	55
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25	Multiple phase changes induced by frustration in randomly connected cellular automata. <i>Journal of Physics A</i> , 1997 , 30, 2995-3002		
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