Abdellatif Hasnaoui

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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.

88 papers	1,934 citations	19 h-index	43 g-index
94 ext. papers	2,188 ext. citations	3.4 avg, IF	5.04 L-index

#	Paper	IF	Citations
88	Atomic mechanism for dislocation emission from nanosized grain boundaries. *Physical Review B*, **2002**, 66,	3.3	339
87	Dimples on nanocrystalline fracture surfaces as evidence for shear plane formation. *Science*, **2003**, 300, 1550-2	33.3	186
86	On non-equilibrium grain boundaries and their effect on thermal and mechanical behaviour: a molecular dynamics computer simulation. *Acta Materialia*, **2002**, 50, 3927-3939	8.4	169
85	Interaction between dislocations and grain boundaries under an indenter a molecular dynamics simulation. *Acta Materialia*, **2004**, 52, 2251-2258	8.4	147
84	Cooperative processes during plastic deformation in nanocrystalline fcc metals: A molecular dynamics simulation. *Physical Review B*, **2002**, 66,	3.3	134
83	Atomistic simulations as guidance to experiments. *Scripta Materialia*, **2003**, 49, 629-635	5.6	99
82	Atomistic simulation of dislocation emission in nanosized grain boundaries. *Philosophical Magazine*, **2003**, 83, 3569-3575	1.6	85
81	Molecular dynamics simulations of the nano-scale room-temperature oxidation of aluminum single crystals. *Surface Science*, **2005**, 579, 47-57	1.8	60
80	Nanoscale oxide growth on Al single crystals at low temperatures: Variable charge molecular dynamics simulations. *Physical Review B*, **2006**, 73,	3.3	49
79	Effect of Sodium Oxide Modifier on Structural and Elastic Properties of Silicate Glass. *Journal of Physical Chemistry B*, **2016**, 120, 13193-13205	3.4	45
78	Molecular dynamics simulation of thermodynamic and structural properties of silicate glass: Effect of the alkali oxide modifiers. *Journal of Non-Crystalline Solids*, **2016**, 448, 16-26	3.9	40
77	Atomistic Modeling of Strength of Nanocrystalline Metals. *Advanced Engineering Materials*, **2003**, 5, 345-350	3.5	37
76	Molecular dynamics study of atomic-level structure in monatomic metallic glass. *Journal of Non-Crystalline Solids*, **2016**, 443, 136-142	3.9	36
75	Atomic packing and medium-range order in Ni 3 Al metallic glass. *Journal of Non-Crystalline Solids*, **2017**, 468, 27-33	3.9	29
74	Cooling rate dependence and local structure in aluminum monatomic metallic glass. *Philosophical Magazine*, **2017**, 97, 2753-2771	1.6	27
73	Viscosity of Ar-Cu nanofluids by molecular dynamics simulations: Effects of nanoparticle content, temperature and potential interaction. *Journal of Molecular Liquids*, **2018**, 268, 490-496	6	25
72	Molecular dynamics study of growth and interface structure during aluminum deposition on Ni(1 0 0) substrate. *Applied Surface Science*, **2015**, 349, 785-791	6.7	25

71	Numerical study of natural convection in a differentially heated square cavity filled with nanofluid in the presence of fins attached to walls in different locations. *Physics of Fluids*, **2019**, 31, 052003	4.4	24
70	Unconventional deformation mechanism in nanocrystalline metals?. *International Journal of Materials Research*, **2003**, 94, 1106-1110		22
69	Alumina effect on the structure and properties of calcium aluminosilicate in the percalcic region: A molecular dynamics investigation. *Journal of Non-Crystalline Solids*, **2019**, 525, 119470	3.9	19
68	Thermodynamic and structural properties of binary calcium silicate glasses: insights from molecular dynamics. *Physical Chemistry Chemical Physics*, **2017**, 19, 19083-19093	3.6	17
67	Structural behavior of Tantalum monatomic metallic glass. *Journal of Non-Crystalline Solids*, **2019**, 510, 81-92	3.9	16
66	Modeling and simulations of nanofluids using classical molecular dynamics: Particle size and temperature effects on thermal conductivity. *Advanced Powder Technology*, **2018**, 29, 2434-2439	4.6	16
65	Atomistic insights into the impact of charge balancing cations on the structure and properties of aluminosilicate glasses. *Physical Review B*, **2019**, 100,	3.3	16
64	Incidence energy effect and impact assessment during homoepitaxial growth of nickel on (001), (111) and (110) surfaces. *Thin Solid Films*, **2017**, 640, 123-133	2.2	16
63	Structural properties of Al and TiAl3 metallic glasses □An embedded atom method study. *Modern Physics Letters B*, **2016**, 30, 1650170	1.6	13
62	THE INFLUENCE OF THE SURFACE ORIENTATION ON THE MORPHOLOGY DURING HOMOEPITAXIAL GROWTH OF NICKEL BY MOLECULAR DYNAMICS SIMULATION. *Surface Review and Letters*, **2017**, 24, 1750019	1.1	13
61	Local atomic structures of single-component metallic glasses. *European Physical Journal B*, **2016**, 89, 1	1.2	13
60	Atomic packing and fractal behavior of Al-Co metallic glasses. *Journal of Alloys and Compounds*, **2018**, 735, 464-472	5.7	12
59	Microstructural evolutions and fractal characteristics in medium range level in AlxNi100-x alloys during rapid solidification process. *Journal of Alloys and Compounds*, **2018**, 744, 750-758	5.7	10
58	Mixed Spin-1/2 and Spin-5/2 Model by Renormalization Group Theory: Recursion Equations and Thermodynamic Study. *International Journal of Theoretical Physics*, **2018**, 57, 2330-2342	1.1	10
57	Structural and mechanical behaviors of Mg-Al metallic glasses investigated by molecular dynamics simulations. *Computational Materials Science*, **2020**, 184, 109895	3.2	9
56	Investigation of fcc and hcp island nucleated during homoepitaxial growth of copper by molecular dynamics simulation. *Superlattices and Microstructures*, **2019**, 127, 118-122	2.8	9
55	Short and medium-range orders in Co3Al metallic glass. *Chemical Physics*, **2018**, 513, 58-66	2.3	9
54	Computational insights into the structure of barium titanosilicate glasses. *Journal of the American Ceramic Society*, **2019**, 102, 6626-6639	3.8	8

53	Annealing effect on elastic and structural behavior of Tantalum monatomic metallic glass. *Materials Chemistry and Physics*, **2020**, 243, 122636	4.4	8
52	Statistical investigations of the film-substrate interface during aluminum deposition on Ni(111) by molecular dynamics simulation. *Superlattices and Microstructures*, **2019**, 127, 80-85	2.8	8
51	Kinetic Monte Carlo Simulation of Au Monolayer Evolution on Cu(110). *Physica Status Solidi (B): Basic Research*, **2018**, 255, 1800404	1.3	8
50	Pressure effects on local atomic structure of Ni15Co15Al70 metallic glasses. *Computational Materials Science*, **2019**, 166, 20-29	3.2	7
49	Monte Carlo Study of the Mixed-Spin (1/2, 2) Ferrimagnetic Ising System on a Honeycomb Lattice. *Journal of Superconductivity and Novel Magnetism*, **2019**, 32, 963-970	1.5	7
48	Cluster adsorption and migration energetics on hcp Ti (0001) surfaces via atomistic simulations. *Thin Solid Films*, **2019**, 682, 99-108	2.2	6
47	Tuning of mechanical properties of Tantalum-based metallic glasses. *International Journal of Mechanical Sciences*, **2021**, 204, 106546	5.5	6
46	Ionic self-diffusion and the glass transition anomaly in aluminosilicates. *Physical Chemistry Chemical Physics*, **2020**, 22, 17205-17212	3.6	5
45	Investigating the potentialities of Ni3Al alloy formation on Ni substrates: Molecular dynamics simulation. *Journal of Crystal Growth*, **2020**, 537, 125607	1.6	5
44	Atomic Scale Investigation of Structural Properties and Glass Forming Ability of Ti100−xAlx Metallic Glasses. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 2513-2522	2.3	5
43	An empirical model for free surface energy of strained solids at different temperature regimes. *Applied Surface Science*, **2006**, 252, 5384-5386	6.7	5
42	Numerical studies of anomalous fast diffusion in metallic alloys and semiconductors. *Applied Surface Science*, **2000**, 162-163, 100-110	6.7	5
41	Impact of Grain Boundaries on Structural and Mechanical Properties **2003**, 155-167		5
40	On the presence of nanoscale heterogeneity in Al70Ni15Co15 metallic glass under pressure. *Journal of Non-Crystalline Solids*, **2020**, 550, 120381	3.9	5
39	Atomic simulation of adsorption of SO pollutant by metal (Zn, Be)-oxide and Ni-decorated graphene: a first-principles study. *Journal of Molecular Modeling*, **2021**, 27, 70	2	5
38	Numerical modeling of natural convection in horizontal and inclined square cavities filled with nanofluid in the presence of magnetic field. *European Physical Journal Plus*, **2019**, 134, 1	3.1	4
37	Kinetic Monte Carlo simulations of coverage effect on Ag and Au monolayers growth on Cu (1 1 0). *Journal of Crystal Growth*, **2019**, 522, 139-150	1.6	4
36	Investigating local atomic structural order inTiAl3metallic glass using molecular dynamic simulation. *Computational Condensed Matter*, **2018**, 14, 74-83	1.7	4

35	Atomistic insights into the structure and elasticity of densified 45S5 bioactive glasses. *Physical Chemistry Chemical Physics*, **2021**, 23, 15292-15301	3.6	4
34	Nanoindentation in Nanocrystalline Metallic Layers: A Molecular Dynamics Study on Size Effects. *Nanostructure Science and Technology*, **2006**, 109-142	0.9	4
33	Silver monolayer formation on Cu(110) by kinetic Monte Carlo method. *European Physical Journal Plus*, **2019**, 134, 1	3.1	3
32	Molecular dynamics simulation of surface morphology during homoepitaxial growth of Copper. *EPJ Applied Physics*, **2019**, 87, 31301	1.1	3
31	Numerical modelling of natural convection in a square cavity: effect of nanofluid volume fraction and inclination. *MATEC Web of Conferences*, **2018**, 241, 01006	0.3	3
30	Random crystal-field effects in a mixed spin-1/2 and spin-2 ferrimagnetic Ising system. *Chinese Journal of Physics*, **2018**, 56, 1949-1963	3.5	3
29	Two dimensional h-BSb mono-layer as a promising anode material for lithium-ion batteries studied from ab initio simulations. *Materials Chemistry and Physics*, **2022**, 275, 125191	4.4	3
28	DNA Nucleobase under Ionizing Radiation: Unexpected Proton Transfer by Thymine Cation in Water Nanodroplets. *Chemistry - A European Journal*, **2020**, 26, 11340-11344	4.8	2
27	Investigation of LiMn1-xMxPO4 (M□=□Ni, Fe) as cathode materials for Li-ion batteries using density functional theory. *Computational Materials Science*, **2022**, 202, 111006	3.2	2
26	NiAl thin film growth on Ni(001) substrate using molecular dynamics simulations. *EPJ Applied Physics*, **2020**, 91, 30301	1.1	2
25	Structure-Elasticity Relationship of Potassium Silicate Glasses from Brillouin Light Scattering Spectroscopy and Molecular Dynamics Simulations. *Journal of Physical Chemistry B*, **2020**, 124, 9216-9223	3.4	2
24	On the structural changes and glass transition temperature relationship during the formation of Re-W metallic glasses. *Journal of Non-Crystalline Solids*, **2021**, 557, 120571	3.9	2
23	Elastic and structural properties of Mg25Al75 binary metallic glass under different cooling conditions. *Journal of Alloys and Compounds*, **2022**, 891, 161979	5.7	2
22	Insights into NinTim clusters adsorption and diffusion on B2-NiTi phase from atomistic simulations. *Surface Science*, **2020**, 701, 121655	1.8	1
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20	Determination of the Stress Distribution at the Interface Metal-Oxide: Numerical and Theoretical Considerations. *Defect and Diffusion Forum*, **2005**, 237-240, 145-150	0.7	1
19	MONTE CARLO STUDY OF THE VACANCY MECHANISM IN DILUTE FCC BINARY ALLOYS. *International Journal of Modern Physics C*, **2000**, 11, 1417-1423	1.1	1
18	Upwind scheme to solve time-periodic temperature effect on convective nanofluid flow in a square cavity. *European Physical Journal Plus*, **2022**, 137, 1	3.1	1

17	Numerical Study Of Natural Convection In Square Cavity Using Lattice Boltzmann Method: Obstacles Effect. *IOP Conference Series: Materials Science and Engineering*, **2020**, 948, 012004	0.4	1
16	Numerical and experimental investigation of alumina-based nanofluid effects on double-pipe heat exchanger thermal performances. *SN Applied Sciences*, **2021**, 3, 1	1.8	1
15	Morphological Surface Study of Silver Electrodeposition by Kinetic Monte Carlo-Embedded Atom Method. *Physica Status Solidi (B): Basic Research*,2100559	1.3	1
14	Atomistic insights into the mixed-alkali effect in phosphosilicate glasses. *Physical Review B*, **2022**, 105,	3.3	1
13	Surface functionalization of penta-siligraphene monolayer for nanoelectronic, optoelectronic and photocatalytic water-splitting: A first-principles study. *Applied Surface Science*, **2022**, 590, 152972	6.7	1
12	Unconventional deformation mechanism in nanocrystalline metals?. *International Journal of Materials Research*, **2022**, 94, 1106-1110	0.5	0
11	Impact of Sn doping on the hydrogen detection characteristics of ZnO thin films: Insights from experimental and DFT combination. *Applied Surface Science*, **2022**, 574, 151585	6.7	0
10	Anisotropy diffusion in monolayer growth of Au on Cu (110) by kinetic Monte Carlo method. *Molecular Crystals and Liquid Crystals*, **2019**, 693, 39-48	0.5	0
9	Density-Diffusion Relationship in Soda-Lime Phosphosilicate. *Journal of Non-Crystalline Solids*, **2022**, 590, 121665	3.9	0
8	Numerical Study Of Water Circulation In Shallow Basin Using Lattice Boltzmann Method. *IOP Conference Series: Materials Science and Engineering*, **2020**, 948, 012003	0.4	
7	First Au monolayer formation on Cu(110) surface. *IOP Conference Series: Materials Science and Engineering*, **2020**, 948, 012026	0.4	
6	Nanocrystalline fcc metals: bridging experiments with simulations. *Materials Research Society Symposia Proceedings*, **2004**, 821, 152		
5	Nanocrystalline fcc metals: bridging experiments with simulations. *Materials Research Society Symposia Proceedings*, **2004**, 819, N4.2.1/P4.2.1		
4	Monte Carlo Calculation of Correlation Factors and Concentration Profiles for Interstitial–Substitutional Diffusion Mechanism with Impurity–Vacancy Interaction in the fcc Lattice. *Physica Status Solidi (B): Basic Research*, **2002**, 233, 158-169	1.3	
3	Shape transition and coalescence of Au islands on Ag (110) by molecular dynamics simulation. *Journal of Molecular Modeling*, **2021**, 27, 120	2	
2	Dimensionality Effects on the Mixed Spin-1/2 and Spin-2 Blume-Capel Model: Renormalization Group Theory. *International Journal of Theoretical Physics*, **2021**, 60, 2856-2870	1.1	
1	Nanoindentation in Nanocrystalline Metallic Layers: A Molecular Dynamics Study on Size Effects109-142		