

Abdellatif Hasnaoui

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.

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	Unconventional deformation mechanism in nanocrystalline metals?. <i>International Journal of Materials Research</i> , 2022 , 94, 1106-1110	0.5	0
87	Upwind scheme to solve time-periodic temperature effect on convective nanofluid flow in a square cavity. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	1
86	Impact of Sn doping on the hydrogen detection characteristics of ZnO thin films: Insights from experimental and DFT combination. <i>Applied Surface Science</i> , 2022 , 574, 151585	6.7	0
85	Investigation of LiMn _{1-x} M _x PO ₄ (M = Ni, Fe) as cathode materials for Li-ion batteries using density functional theory. <i>Computational Materials Science</i> , 2022 , 202, 111006	3.2	2
84	Elastic and structural properties of Mg ₂₅ Al ₇₅ binary metallic glass under different cooling conditions. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 161979	5.7	2
83	Two dimensional h-BSe mono-layer as a promising anode material for lithium-ion batteries studied from ab initio simulations. <i>Materials Chemistry and Physics</i> , 2022 , 275, 125191	4.4	3
82	Atomistic insights into the mixed-alkali effect in phosphosilicate glasses. <i>Physical Review B</i> , 2022 , 105,	3.3	1
81	Surface functionalization of penta-siligraphene monolayer for nanoelectronic, optoelectronic and photocatalytic water-splitting: A first-principles study. <i>Applied Surface Science</i> , 2022 , 590, 152972	6.7	1
80	Density-Diffusion Relationship in Soda-Lime Phosphosilicate. <i>Journal of Non-Crystalline Solids</i> , 2022 , 590, 121665	3.9	0
79	Shape transition and coalescence of Au islands on Ag (110) by molecular dynamics simulation. <i>Journal of Molecular Modeling</i> , 2021 , 27, 120	2	
78	Dimensionality Effects on the Mixed Spin-1/2 and Spin-2 Blume-Capel Model: Renormalization Group Theory. <i>International Journal of Theoretical Physics</i> , 2021 , 60, 2856-2870	1.1	
77	On the structural changes and glass transition temperature relationship during the formation of Re-W metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2021 , 557, 120571	3.9	2
76	Atomistic insights into the structure and elasticity of densified 45S5 bioactive glasses. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 15292-15301	3.6	4
75	Numerical and experimental investigation of alumina-based nanofluid effects on double-pipe heat exchanger thermal performances. <i>SN Applied Sciences</i> , 2021 , 3, 1	1.8	1
74	Atomic simulation of adsorption of SO pollutant by metal (Zn, Be)-oxide and Ni-decorated graphene: a first-principles study. <i>Journal of Molecular Modeling</i> , 2021 , 27, 70	2	5
73	Tuning of mechanical properties of Tantalum-based metallic glasses. <i>International Journal of Mechanical Sciences</i> , 2021 , 204, 106546	5.5	6
72	Numerical Study Of Water Circulation In Shallow Basin Using Lattice Boltzmann Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 948, 012003	0.4	

71	First Au monolayer formation on Cu(110) surface. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 948, 012026	0.4	
70	DNA Nucleobase under Ionizing Radiation: Unexpected Proton Transfer by Thymine Cation in Water Nanodroplets. <i>Chemistry - A European Journal</i> , 2020 , 26, 11340-11344	4.8	2
69	Insights into NinTim clusters adsorption and diffusion on B2-NiTi phase from atomistic simulations. <i>Surface Science</i> , 2020 , 701, 121655	1.8	1
68	Structural and mechanical behaviors of Mg-Al metallic glasses investigated by molecular dynamics simulations. <i>Computational Materials Science</i> , 2020 , 184, 109895	3.2	9
67	Ionic self-diffusion and the glass transition anomaly in aluminosilicates. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 17205-17212	3.6	5
66	Investigating the potentialities of Ni3Al alloy formation on Ni substrates: Molecular dynamics simulation. <i>Journal of Crystal Growth</i> , 2020 , 537, 125607	1.6	5
65	NiAl thin film growth on Ni(001) substrate using molecular dynamics simulations. <i>EPJ Applied Physics</i> , 2020 , 91, 30301	1.1	2
64	Annealing effect on elastic and structural behavior of Tantalum monatomic metallic glass. <i>Materials Chemistry and Physics</i> , 2020 , 243, 122636	4.4	8
63	On the presence of nanoscale heterogeneity in Al70Ni15Co15 metallic glass under pressure. <i>Journal of Non-Crystalline Solids</i> , 2020 , 550, 120381	3.9	5
62	Numerical Study Of Natural Convection In Square Cavity Using Lattice Boltzmann Method: Obstacles Effect. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 948, 012004	0.4	1
61	Structure-Elasticity Relationship of Potassium Silicate Glasses from Brillouin Light Scattering Spectroscopy and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 9216-9223	3.4	2
60	Numerical modeling of natural convection in horizontal and inclined square cavities filled with nanofluid in the presence of magnetic field. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	4
59	Kinetic Monte Carlo simulations of coverage effect on Ag and Au monolayers growth on Cu (1 1 0). <i>Journal of Crystal Growth</i> , 2019 , 522, 139-150	1.6	4
58	Computational insights into the structure of barium titanosilicate glasses. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6626-6639	3.8	8
57	Cluster adsorption and migration energetics on hcp Ti (0001) surfaces via atomistic simulations. <i>Thin Solid Films</i> , 2019 , 682, 99-108	2.2	6
56	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. <i>Physics of Fluids</i> , 2019 , 31, 052003	4.4	24
55	Pressure effects on local atomic structure of Ni15Co15Al70 metallic glasses. <i>Computational Materials Science</i> , 2019 , 166, 20-29	3.2	7
54	Silver monolayer formation on Cu(110) by kinetic Monte Carlo method. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	3

53	Structural behavior of Tantalum monatomic metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2019 , 510, 81-92	3.9	16
52	Monte Carlo Study of the Mixed-Spin (1/2, 2) Ferrimagnetic Ising System on a Honeycomb Lattice. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 963-970	1.5	7
51	Study of the Nanoparticles Concentration Effect On Thermal Performances of Al ₂ O ₃ Based Nanofluid in A Double Pipe Heat Exchanger. <i>Sensor Letters</i> , 2019 , 17, 132-136	0.9	1
50	Atomistic insights into the impact of charge balancing cations on the structure and properties of aluminosilicate glasses. <i>Physical Review B</i> , 2019 , 100,	3.3	16
49	Alumina effect on the structure and properties of calcium aluminosilicate in the percalcic region: A molecular dynamics investigation. <i>Journal of Non-Crystalline Solids</i> , 2019 , 525, 119470	3.9	19
48	Anisotropy diffusion in monolayer growth of Au on Cu (110) by kinetic Monte Carlo method. <i>Molecular Crystals and Liquid Crystals</i> , 2019 , 693, 39-48	0.5	0
47	Molecular dynamics simulation of surface morphology during homoepitaxial growth of Copper. <i>EPJ Applied Physics</i> , 2019 , 87, 31301	1.1	3
46	Statistical investigations of the film-substrate interface during aluminum deposition on Ni(111) by molecular dynamics simulation. <i>Superlattices and Microstructures</i> , 2019 , 127, 80-85	2.8	8
45	Investigation of fcc and hcp island nucleated during homoepitaxial growth of copper by molecular dynamics simulation. <i>Superlattices and Microstructures</i> , 2019 , 127, 118-122	2.8	9
44	Microstructural evolutions and fractal characteristics in medium range level in Al _x Ni _{100-x} alloys during rapid solidification process. <i>Journal of Alloys and Compounds</i> , 2018 , 744, 750-758	5.7	10
43	Investigating local atomic structural order in TiAl ₃ metallic glass using molecular dynamic simulation. <i>Computational Condensed Matter</i> , 2018 , 14, 74-83	1.7	4
42	Mixed Spin-1/2 and Spin-5/2 Model by Renormalization Group Theory: Recursion Equations and Thermodynamic Study. <i>International Journal of Theoretical Physics</i> , 2018 , 57, 2330-2342	1.1	10
41	Atomic Scale Investigation of Structural Properties and Glass Forming Ability of Ti _{100-x} Al _x Metallic Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 2513-2522	2.3	5
40	Viscosity of Ar-Cu nanofluids by molecular dynamics simulations: Effects of nanoparticle content, temperature and potential interaction. <i>Journal of Molecular Liquids</i> , 2018 , 268, 490-496	6	25
39	Modeling and simulations of nanofluids using classical molecular dynamics: Particle size and temperature effects on thermal conductivity. <i>Advanced Powder Technology</i> , 2018 , 29, 2434-2439	4.6	16
38	Atomic packing and fractal behavior of Al-Co metallic glasses. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 464-472	5.7	12
37	Numerical modelling of natural convection in a square cavity: effect of nanofluid volume fraction and inclination. <i>MATEC Web of Conferences</i> , 2018 , 241, 01006	0.3	3
36	Random crystal-field effects in a mixed spin-1/2 and spin-2 ferrimagnetic Ising system. <i>Chinese Journal of Physics</i> , 2018 , 56, 1949-1963	3.5	3

35	Kinetic Monte Carlo Simulation of Au Monolayer Evolution on Cu(110). <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800404	1.3	8
34	Short and medium-range orders in Co ₃ Al metallic glass. <i>Chemical Physics</i> , 2018 , 513, 58-66	2.3	9
33	Atomic packing and medium-range order in Ni ₃ Al metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2017 , 468, 27-33	3.9	29
32	Incidence energy effect and impact assessment during homoepitaxial growth of nickel on (001), (111) and (110) surfaces. <i>Thin Solid Films</i> , 2017 , 640, 123-133	2.2	16
31	Cooling rate dependence and local structure in aluminum monatomic metallic glass. <i>Philosophical Magazine</i> , 2017 , 97, 2753-2771	1.6	27
30	Thermodynamic and structural properties of binary calcium silicate glasses: insights from molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19083-19093	3.6	17
29	THE INFLUENCE OF THE SURFACE ORIENTATION ON THE MORPHOLOGY DURING HOMOEPITAXIAL GROWTH OF NICKEL BY MOLECULAR DYNAMICS SIMULATION. <i>Surface Review and Letters</i> , 2017 , 24, 1750019	1.1	13
28	Structural properties of Al and TiAl ₃ metallic glasses [An embedded atom method study. <i>Modern Physics Letters B</i> , 2016 , 30, 1650170	1.6	13
27	Molecular dynamics simulation of thermodynamic and structural properties of silicate glass: Effect of the alkali oxide modifiers. <i>Journal of Non-Crystalline Solids</i> , 2016 , 448, 16-26	3.9	40
26	Effect of Sodium Oxide Modifier on Structural and Elastic Properties of Silicate Glass. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 13193-13205	3.4	45
25	Molecular dynamics study of atomic-level structure in monatomic metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2016 , 443, 136-142	3.9	36
24	Local atomic structures of single-component metallic glasses. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	13
23	Molecular dynamics study of growth and interface structure during aluminum deposition on Ni(1 0 0) substrate. <i>Applied Surface Science</i> , 2015 , 349, 785-791	6.7	25
22	Nanoscale oxide growth on Al single crystals at low temperatures: Variable charge molecular dynamics simulations. <i>Physical Review B</i> , 2006 , 73,	3.3	49
21	An empirical model for free surface energy of strained solids at different temperature regimes. <i>Applied Surface Science</i> , 2006 , 252, 5384-5386	6.7	5
20	Nanoindentation in Nanocrystalline Metallic Layers: A Molecular Dynamics Study on Size Effects. <i>Nanostructure Science and Technology</i> , 2006 , 109-142	0.9	4
19	Molecular dynamics simulations of the nano-scale room-temperature oxidation of aluminum single crystals. <i>Surface Science</i> , 2005 , 579, 47-57	1.8	60
18	Determination of the Stress Distribution at the Interface Metal-Oxide: Numerical and Theoretical Considerations. <i>Defect and Diffusion Forum</i> , 2005 , 237-240, 145-150	0.7	1

17	Nanocrystalline fcc metals: bridging experiments with simulations. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 152		
16	Nanocrystalline fcc metals: bridging experiments with simulations. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 819, N4.2.1/P4.2.1		
15	Interaction between dislocations and grain boundaries under an indenter by a molecular dynamics simulation. <i>Acta Materialia</i> , 2004 , 52, 2251-2258	8.4	147
14	Unconventional deformation mechanism in nanocrystalline metals?. <i>International Journal of Materials Research</i> , 2003 , 94, 1106-1110		22
13	Atomistic simulations as guidance to experiments. <i>Scripta Materialia</i> , 2003 , 49, 629-635	5.6	99
12	Atomistic Modeling of Strength of Nanocrystalline Metals. <i>Advanced Engineering Materials</i> , 2003 , 5, 345-350	3.5	37
11	Atomistic simulation of dislocation emission in nanosized grain boundaries. <i>Philosophical Magazine</i> , 2003 , 83, 3569-3575	1.6	85
10	Dimples on nanocrystalline fracture surfaces as evidence for shear plane formation. <i>Science</i> , 2003 , 300, 1550-2	33.3	186
9	Impact of Grain Boundaries on Structural and Mechanical Properties 2003 , 155-167		5
8	Monte Carlo Calculation of Correlation Factors and Concentration Profiles for Interstitial/Substitutional Diffusion Mechanism with Impurity/Vacancy Interaction in the fcc Lattice. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 233, 158-169	1.3	
7	On non-equilibrium grain boundaries and their effect on thermal and mechanical behaviour: a molecular dynamics computer simulation. <i>Acta Materialia</i> , 2002 , 50, 3927-3939	8.4	169
6	Cooperative processes during plastic deformation in nanocrystalline fcc metals: A molecular dynamics simulation. <i>Physical Review B</i> , 2002 , 66,	3.3	134
5	Atomic mechanism for dislocation emission from nanosized grain boundaries. <i>Physical Review B</i> , 2002 , 66,	3.3	339
4	Numerical studies of anomalous fast diffusion in metallic alloys and semiconductors. <i>Applied Surface Science</i> , 2000 , 162-163, 100-110	6.7	5
3	MONTE CARLO STUDY OF THE VACANCY MECHANISM IN DILUTE FCC BINARY ALLOYS. <i>International Journal of Modern Physics C</i> , 2000 , 11, 1417-1423	1.1	1
2	Morphological Surface Study of Silver Electrodeposition by Kinetic Monte Carlo-Embedded Atom Method. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 2100559	1.3	1
1	Nanoindentation in Nanocrystalline Metallic Layers: A Molecular Dynamics Study on Size Effects	109-142	