List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Evaluation, Calibration, and Verification of a Reinforced Concrete Beam–Column Joint Model. Journal of Structural Engineering, 2007, 133, 105-120.	3.4	130
2	A methodology for improving shear performance of marine grade sandwich composites: Sandwich composite panel with shear key. Composite Structures, 2010, 92, 1065-1072.	5.8	52
3	A metastable phase of shocked bulk single crystal copper: an atomistic simulation study. Scientific Reports, 2017, 7, 7337.	3.3	46
4	Interface fracture of sandwich composites: Influence of MWCNT sonicated epoxy resin. Composites Science and Technology, 2014, 101, 94-101.	7.8	43
5	Evolution of dislocation mechanisms in single-crystal Cu under shock loading in different directions. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 025013.	2.0	35
6	On shock response of nano-void closed/open cell copper material: Non-equilibrium molecular dynamic simulations. Journal of Applied Physics, 2014, 115, .	2.5	33
7	Shock induced deformation response of single crystal copper: Effect of crystallographic orientation. Computational Materials Science, 2017, 135, 141-151.	3.0	31
8	Compression twinning and structural phase transformation of single crystal titanium under uniaxial compressive strain conditions: Comparison of inter-atomic potentials. Computational Materials Science, 2017, 126, 228-237.	3.0	30
9	Molecular dynamics investigation of c-axis deformation of single crystal Ti under uniaxial stress conditions: Evolution of compression twinning and dislocations. Computational Materials Science, 2018, 141, 19-29.	3.0	30
10	Improvement in tensile and flexural ductility with the addition of different types of polypropylene fibers in cementitious composites. Construction and Building Materials, 2018, 180, 405-411.	7.2	30
11	Shock induced phase transition of water: Molecular dynamics investigation. Physics of Fluids, 2016, 28, .	4.0	26
12	Non-contact near-field underwater explosion induced shock-wave loading of submerged rigid structures: Nonlinear compressibility effects in fluid structure interaction. Journal of Applied Physics, 2012, 112, 024911.	2.5	25
13	Influence of aggregate size on flexural fatigue response of concrete. Construction and Building Materials, 2019, 229, 116922.	7.2	25
14	Cavitation in epoxies under composite-like stress states. Composites Part A: Applied Science and Manufacturing, 2018, 106, 52-58.	7.6	22
15	Twinning, phase transformation and dislocation evolution in single crystal titanium under uniaxial strain conditions: A molecular dynamics study. Computational Materials Science, 2020, 172, 109325.	3.0	18
16	Evolution of tension twinning in single crystal Ti under compressive uniaxial strain conditions. Computational Materials Science, 2018, 141, 302-312.	3.0	16
17	Probabilistic model for failure initiation of reinforced concrete interior beam–column connections subjected to seismic loading. Engineering Structures, 2011, 33, 154-162.	5.3	15
18	Thermal conductivity of cement paste: Influence of macro-porosity. Cement and Concrete Research, 2021, 143, 106385.	11.0	15

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19	Prediction of performance of exterior beam-column connections with headed bars subject to load reversal. Engineering Structures, 2012, 41, 209-217.	5.3	14
20	Underwater explosion induced shock loading of structures: Influence of water depth, salinity and temperature. Ocean Engineering, 2016, 126, 22-28.	4.3	14
21	Molecular level deformation mechanism of ettringite. Cement and Concrete Research, 2019, 124, 105836.	11.0	12
22	Intermolecular dynamics of ultraconfined interlayer water in tobermorite: influence on mechanical performance. Physical Chemistry Chemical Physics, 2019, 21, 11416-11423.	2.8	12
23	Gypsum under tensile loading: A molecular dynamics study. Construction and Building Materials, 2019, 201, 1-10.	7.2	12
24	On core compressibility of sandwich composite panels subjected to intense underwater shock loads. Journal of Applied Physics, 2014, 115, .	2.5	10
25	Shock compression of polyvinyl chloride. Journal of Applied Physics, 2016, 119, .	2.5	10
26	Multiscale Estimation of Elastic Constants of Hydrated Cement. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	10
27	Intermolecular Dynamics of Water: Suitability of Reactive Interatomic Potential. Journal of Physical Chemistry B, 2019, 123, 6529-6535.	2.6	9
28	Epoxy Resin (DGEBA/TETA) Exposed to Water: a Spectroscopic Investigation to Determine Water-Epoxy Interactions. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 558-571.	2.2	9
29	Mixed-mode fracture of sandwich composites: Performance improvement with multiwalled carbon nanotube sonicated resin. Journal of Sandwich Structures and Materials, 2018, 20, 379-395.	3.5	8
30	Role of confined interstitial water in compressive response of calcium sulfate (CaSO4.n) Tj ETQq0 0 0 rgBT /Ove	rlock 10 Tr	f 50 <mark>8</mark> 302 Td (H
31	Influence of polyester microfiber reinforcement on flexural fatigue characteristics of concrete. Road Materials and Pavement Design, 2021, 22, 2866-2882.	4.0	8
32	Compressive response of tricalcium aluminate crystal: Molecular dynamics investigations. Construction and Building Materials, 2019, 224, 188-197.	7.2	7
33	Terahertz spectroscopy of diglycidylether of bisphenol A: Experimental investigations and density functional theory based simulations. Journal of Molecular Structure, 2019, 1184, 114-122.	3.6	7
34	An atomistic study of phase transition in cubic diamond Si single crystal subjected to static compression. Computational Materials Science, 2019, 156, 232-240.	3.0	7
35	Interfacial delamination in glass-fiber/polymer-foam-core sandwich composites using singlemode–multimode–singlemode optical fiber sensors: Identification based on experimental investigation. Journal of Sandwich Structures and Materials, 2020, 22, 40-54.	3.5	7
36	Morphological changes in epoxy resin (DGEBA/TETA) exposed to low temperatures. Journal of Adhesion Science and Technology, 2020, 34, 2262-2273.	2.6	6

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37	Molecular mechanisms of tricalcium aluminate under tensile loads. Computational Materials Science, 2018, 154, 547-556.	3.0	5
38	Molecular deformation response of portlandite under compressive loading. Construction and Building Materials, 2021, 274, 122020.	7.2	5
39	High-temperature and high-pressure plastic phase of ice at the boundary of liquid water and ice VII. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	2.1	5
40	Shock-Induced phase transition of single crystal copper. AIP Conference Proceedings, 2017, , .	0.4	4
41	High temperature–high pressure phase transformation of Cu. Computational Materials Science, 2019, 170, 109154.	3.0	4
42	Interfacial delamination crack profile estimation in polymer foam-cored sandwich composites. Engineering Structures, 2019, 189, 635-643.	5.3	4
43	Microstructural Response of Shock-Loaded Concrete, Mortar, and Cementitious Composite Materials in a Shock Tube Setup. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	4
44	{101̄2} twinning in single-crystal titanium under shock loading. Philosophical Magazine, 2021, 101, 836-850.	1.6	4
45	Underwater oblique shock wave reflection. Physical Review Fluids, 2018, 3, .	2.5	4
46	Comparison of Mechanical Performance and Life Cycle Cost of Natural and Synthetic Fiber-Reinforced Cementitious Composites. Journal of Materials in Civil Engineering, 2020, 32, 04020150.	2.9	3
47	Headed Reinforcement Applications for Reinforced Concrete Beam-Column Connections. , 2009, , .		2
48	Stretchâ€induced helix to extended coil transition of crystalline α phase isotactic polypropylene: A molecular dynamics study. Polymer Crystallization, 2020, 3, e10143.	0.8	2
49	Failure Initiation of Reinforced-Concrete Beam-Column Connections — Binomial Logistic Regression Based Probabilistic Model. Advances in Structural Engineering, 2012, 15, 121-137.	2.4	1
50	Estimation of Elastic Parameters of Sandwich Composite Plates Using a Gradient Based Finite Element Model Updating Approach. , 2016, , .		1
51	ldentification of molecular vibrations associated with tacticity in polypropylene: Density functional theoryâ€based simulations. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 1378-1385.	2.1	1
52	Influence of Surface Morphology of Fibers on the Tensile and Flexural Ductility of Polypropylene-Reinforced Cementitious Composites. Journal of Materials in Civil Engineering, 2020, 32, 04020042.	2.9	1
53	Evolution of microstructural deformation mechanisms under equal-channel angular extrusion loading conditions: a molecular dynamics case study of single crystal titanium. Philosophical Magazine, 2021, 101, 435-449.	1.6	1
54	Twinning assisted α to ω phase transformation in titanium single crystal. AIP Conference Proceedings, 2017, , .	0.4	0

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55	Terahertz Spectroscopy of Adhesive material under various climatic conditions. , 2019, , .		0
56	Pedestrian injury severity in the event of a collision with a truck: are energy absorbing adaptive deformable fronts suitable. International Journal of Vehicle Safety, 2018, 10, 235.	0.2	0
57	Mitigation of Mechanical Property Degradation of Epoxy Resin Subjected to UV with Addition of Different Nanofillers. , 0, , .		0
58	Epoxy Resin (DGEBA/TETA) Under Extreme Environment. , 0, , .		0
59	Construction Practices of Short Paneled Concrete Pavements (SPCP) for High Volume Roads. , 0, , .		0