Firaz Ebrahem

List of Publications by Year
in descending order

17 papers	169 citations	1307594 7 h-index	1125743 13 g-index
17 all docs	17 docs citations	17 times ranked	74 citing authors

#	Article	IF	Citations
1	The influence of the network topology on the deformation and fracture behaviour of silica glass: A molecular dynamics study. Computational Materials Science, 2018, 149, 162-169.	3.0	38
2	Plasticity in vitreous silica induced by cyclic tension considering rate-dependence: Role of the network topology. Journal of Non-Crystalline Solids, 2019, 503-504, 176-181.	3.1	22
3	Athermal mechanical analysis of Stone-Wales defects in two-dimensional silica. Computational Materials Science, 2019, 163, 301-307.	3.0	18
4	Elementary plastic events in a Zachariasen glass under shear and pressure. Materialia, 2020, 9, 100556.	2.7	18
5	Vitreous 2D silica under tension: From brittle to ductile behaviour. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 780, 139189.	5.6	16
6	Stone–Wales defect interaction in quasistatically deformed 2D silica. Journal of Materials Science, 2020, 55, 3470-3483.	3.7	12
7	Origin of reversible and irreversible atomic-scale rearrangements in a model two-dimensional network glass. Physical Review E, 2020, 102, 033006.	2.1	12
8	Data-driven classification of elementary rearrangement events in silica glass. Scripta Materialia, 2021, 205, 114179.	5.2	8
9	Molecular dynamics simulations of the cooling rate influence on the tensile strength of silica glass. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 235-236.	0.2	7
10	Continuous Zachariasen carbon monolayers under tensile deformation: Insights from molecular dynamics simulations. Extreme Mechanics Letters, 2020, 38, 100744.	4.1	6
11	Self-organized criticality in fracture models at different scales. Examples and Counterexamples, 2022, 2, 100054.	0.6	6
12	Investigation of the network topology of vitreous silica during cyclic tensile loading. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800441.	0.2	3
13	On the Poisson's ratio of an amorphous 2D network material. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000318.	0.2	2
14	Modelling silica bilayers based on experimental data. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900475.	0.2	1
15	The effect of the medium–range configuration on the atomistic fracture behaviour of vitreous silica. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800418.	0.2	0
16	On the fracture behavior of vitreous two–dimensional silica. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900460.	0.2	0
17	Stress response of 2D silica under quasi–static tension. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900467.	0.2	0