

Christophe Denoual

List of Publications by Citations

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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.

19
papers

526
citations

10
h-index

20
g-index

20
ext. papers

587
ext. citations

4
avg, IF

3.75
L-index

#	Paper	IF	Citations
19	A damage model for the dynamic fragmentation of brittle solids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 183, 247-258	5.7	123
18	On the probabilistic-deterministic transition involved in a fragmentation process of brittle materials. <i>Computers and Structures</i> , 2003 , 81, 1241-1253	4.5	75
17	Dynamic fragmentation of brittle solids: a multi-scale model. <i>European Journal of Mechanics, A/Solids</i> , 2002 , 21, 105-120	3.7	64
16	Visualization of the damage evolution in impacted silicon carbide ceramics. <i>International Journal of Impact Engineering</i> , 1998 , 21, 225-235	4	63
15	Dynamic dislocation modeling by combining Peierls Nabarro and Galerkin methods. <i>Physical Review B</i> , 2004 , 70,	3.3	49
14	Modeling dislocation by coupling Peierls-Nabarro and element-free Galerkin methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 1915-1923	5.7	33
13	Mechanism for the α -phase transition in iron. <i>Physical Review B</i> , 2013 , 87,	3.3	26
12	Phase-field reaction-pathway kinetics of martensitic transformations in a model Fe ₃ Ni alloy. <i>Physical Review Letters</i> , 2010 , 105, 035703	7.4	26
11	Plastic deformation of wadsleyite: IV Dislocation core modelling based on the Peierls-Nabarro-Galerkin model. <i>Acta Materialia</i> , 2010 , 58, 1467-1478	8.4	19
10	Irreversible Deformation Mechanisms for 1,3,5-Triamino-2,4,6-Trinitrobenzene Single Crystal through Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14954-14964	3.8	13
9	Dislocation Core Structure at Finite Temperature Inferred by Molecular Dynamics Simulations for 1,3,5-Triamino-2,4,6-trinitrobenzene Single Crystal. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 7442-7449 ^{3,8}	3.8	10
8	Following the phase transitions of iron in 3D with X-ray tomography and diffraction under extreme conditions. <i>Acta Materialia</i> , 2020 , 192, 30-39	8.4	7
7	A probabilistic approach for fragmentation of brittle materials under dynamic loading. <i>Comptes Rendus De L'Académie Des Sciences - Series IIB - Mechanics-Physics-Chemistry-Astronomy</i> , 1997 , 325, 685-691		7
6	Peierls-Nabarro modelling of dislocations in diopside. <i>Physics and Chemistry of Minerals</i> , 2010 , 37, 711-720.	6	4
5	Mesosopic constitutive law with nonlinear elasticity and phase transformation for the twinning-buckling of TATB under dynamic loading. <i>Physical Review Materials</i> , 2019 , 3,	3.2	3
4	Real time imaging of strain fields induced by the ferrite-to-austenite transformation in high purity iron. <i>Materials Today Communications</i> , 2020 , 24, 101028	2.5	2
3	Detection of plasticity mechanisms in molecular dynamics: Application to TATB single crystal 2018 ,		2

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| 2 | Elastic instability in graphite single crystal under dynamic triaxial compression: Effect of strain-rate on the resulting microstructure. <i>Journal of Applied Physics</i> , 2020 , 128, 045101 | 2.5 | 0 |
| 1 | Localization of plastic deformation in stretching plates: effect of crystalline structure. <i>EPJ Web of Conferences</i> , 2021 , 250, 03009 | 0.3 | |