Simon Vigonski

List of Publications by Year
in descending order

12 papers	102 citations	1684188 5 h-index	1372567 10 g-index
12 all docs	12 docs citations	12 times ranked	115 citing authors

#	Article	IF	Citations
1	Au nanowire junction breakup through surface atom diffusion. Nanotechnology, 2018, 29, 015704.	2.6	27
2	Migration barriers for surface diffusion on a rigid lattice: Challenges and solutions. Computational Materials Science, 2018, 146, 287-302.	3.0	21
3	Growth mechanism for nanotips in high electric fields. Nanotechnology, 2020, 31, 355301.	2.6	19
4	Molecular dynamics simulations of near-surface Fe precipitates in Cu under high electric fields. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 025009.	2.0	10
5	Application of artificial neural networks for rigid lattice kinetic Monte Carlo studies of Cu surface diffusion. Computational Materials Science, 2020, 183, 109789.	3.0	8
6	Verification of a multiscale surface stress model near voids in copper under the load induced by external high electric field. Applied Mathematics and Computation, 2015, 267, 476-486.	2.2	5
7	Tungsten migration energy barriers for surface diffusion: a parameterization for KMC simulations. Modelling and Simulation in Materials Science and Engineering, 2020, 28, 035011.	2.0	4
8	The effect of heat treatment on the morphology and mobility of Au nanoparticles. Beilstein Journal of Nanotechnology, 2020, 11, 61-67.	2.8	4
9	Data sets of migration barriers for atomistic Kinetic Monte Carlo simulations of Cu self-diffusion via first nearest neighbour atomic jumps. Data in Brief, 2018, 17, 739-743.	1.0	2
10	Data sets and trained neural networks for Cu migration barriers. Data in Brief, 2020, 32, 106094.	1.0	1
11	Mechanism of Spontaneous Surface Modifications on Polycrystalline Cu Due to Electric Fields. Micromachines, 2021, 12, 1178.	2.9	1
12	Data sets of migration barriers for atomistic Kinetic Monte Carlo simulations of Fe self-diffusion. Data in Brief, 2018, 19, 564-569.	1.0	0