

# Tapan Desai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10796819/publications.pdf>

Version: 2024-02-01

10  
papers

471  
citations

1040056

9  
h-index

1372567

10  
g-index

10  
all docs

10  
docs citations

10  
times ranked

692  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulations of polymer transport in nanocomposites. Journal of Chemical Physics, 2005, 122, 134910.	3.0	172
2	Generation of amorphous carbon models using liquid quench method: A reactive molecular dynamics study. Carbon, 2017, 113, 87-99.	10.3	74
3	Passivation of Aluminum Nanoparticles by Plasma-Enhanced Chemical Vapor Deposition for Energetic Nanomaterials. ACS Applied Materials & Interfaces, 2014, 6, 7942-7947.	8.0	58
4	Atomistic simulations of diffusional creep in a nanocrystalline body-centered cubic material. Acta Materialia, 2008, 56, 3688-3698.	7.9	52
5	Phase-field simulation of thermal conductivity in porous polycrystalline microstructures. Journal of Applied Physics, 2008, 104, .	2.5	45
6	Grain-boundary source/sink behavior for point defects: An atomistic simulation study. International Journal of Materials Research, 2009, 100, 550-555.	0.3	28
7	Time scale for point-defect equilibration in nanostructures. Applied Physics Letters, 2008, 93, .	3.3	16
8	Controlled manipulation of wetting characteristics of nanoparticles with dry-based plasma polymerization method. Applied Physics Letters, 2012, 101, .	3.3	15
9	Modeling high-temperature diffusion of gases in micro and mesoporous amorphous carbon. Journal of Chemical Physics, 2015, 143, 084701.	3.0	9
10	Development of Chemical Kinetics Models from Atomistic Reactive Molecular Dynamics Simulations: Application to Iso-octane Combustion and Rubber Ablative Degradation. Journal of Physical Chemistry A, 2022, , .	2.5	2