

# T A Parthasarathy

## List of Publications by Year in descending order

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13  
papers

679  
citations

840776

11  
h-index

1058476

14  
g-index

15  
all docs

15  
docs citations

15  
times ranked

551  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating the strength of single-ended dislocation sources in micron-sized single crystals. Philosophical Magazine, 2007, 87, 4777-4794.	1.6	159
2	Green's function boundary conditions in two-dimensional and three-dimensional atomistic simulations of dislocations. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 77, 231-256.	0.6	107
3	Atomistic simulation of cross-slip processes in model fcc structures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 1167-1192.	0.6	95
4	Overview of experiments on microcrystal plasticity in FCC-derivative materials: selected challenges for modelling and simulation of plasticity. Modelling and Simulation in Materials Science and Engineering, 2007, 15, 135-146.	2.0	63
5	Molecular statics simulations of core structures and motion of dislocations in NiAl. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 643-662.	0.6	56
6	Discrete dislocation simulations of precipitation hardening in superalloys. Philosophical Magazine, 2004, 84, 3195-3215.	1.6	52
7	Monazite Coatings on SiC Fibers I: Fiber Strength and Thermal Stability. Journal of the American Ceramic Society, 2006, 89, 3475-3480.	3.8	39
8	Composition, lattice parameters, and room temperature elastic constants of natural single crystal xenotime from Novo Horizonte. Physics and Chemistry of Minerals, 2006, 33, 691-698.	0.8	28
9	Transformation Plasticity in ( $\text{Gd}_{1-x}\text{Dy}_x$ ) $\text{PO}_4$ Fiber Coatings During Fiber Push Out. Journal of the American Ceramic Society, 2013, 96, 1586-1595.	3.8	39
10	Implications from pre-straining experiments on emerging kink-based models for anomalous flow in $\text{L1}_2$ alloys. Philosophical Magazine Letters, 1995, 71, 21-31.	1.2	20
11	Discrete dislocation simulations of precipitation hardening in inverse superalloys. Philosophical Magazine Letters, 2006, 86, 215-225.	1.2	20
12	Modelling plasticity of Ni3Al-based $\text{L1}_2$ intermetallic single crystals. II. Two-step (T1 and T2) deformation behaviour. Philosophical Magazine, 2007, 87, 4759-4775.	1.6	5
13	Molecular Statics Simulations of the Motion of a Single Kink in NiAl. Materials Research Society Symposia Proceedings, 1992, 288, 311.	0.1	4