

Naresh N Thadhani

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.

75
papers

1,604
citations

15
h-index

39
g-index

82
ext. papers

1,813
ext. citations

6
avg, IF

4.97
L-index

#	Paper	IF	Citations
75	Mechanical properties of bulk metallic glasses. <i>Progress in Materials Science</i> , 2010 , 55, 759-839	42.2	621
74	Shock-induced chemical reactions and synthesis of materials. <i>Progress in Materials Science</i> , 1993 , 37, 117-226	42.2	158
73	Unconventional route to dual-shelled organolead halide perovskite nanocrystals with controlled dimensions, surface chemistry, and stabilities. <i>Science Advances</i> , 2019 , 5, eaax4424	14.3	82
72	Enabling Tailorable Optical Properties and Markedly Enhanced Stability of Perovskite Quantum Dots by Permanently Ligating with Polymer Hairs. <i>Advanced Materials</i> , 2019 , 31, e1901602	24	81
71	All-Inorganic Perovskite Nanocrystals with a Stellar Set of Stabilities and Their Use in White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37267-37276	9.5	59
70	Reaction synthesis of high-temperature silicides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 192-193, 604-611	5.3	43
69	Efficient intracellular delivery of molecules with high cell viability using nanosecond-pulsed laser-activated carbon nanoparticles. <i>ACS Nano</i> , 2014 , 8, 2889-99	16.7	39
68	Investigation of shock-induced reaction behavior of as-blended and ball-milled Ni+Ti powder mixtures using time-resolved stress measurements. <i>Journal of Applied Physics</i> , 2004 , 96, 2000-2009	2.5	39
67	Configurational effects on shock wave propagation in Ni-Al multilayer composites. <i>Journal of Applied Physics</i> , 2012 , 111, 073527	2.5	34
66	Time-resolved measurements of the shock-compression response of Mo+2Si elemental powder mixtures. <i>Journal of Applied Physics</i> , 2003 , 94, 1575-1583	2.5	30
65	Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12946-12951	16.4	26
64	Preparation of an α -Fe ₁₆ N ₂ Magnet via a Ball Milling and Shock Compaction Approach. <i>Advanced Engineering Materials</i> , 2016 , 18, 1009-1016	3.5	25
63	The shock-densification behavior of three distinct Ni+Al powder mixtures. <i>Applied Physics Letters</i> , 2008 , 92, 111903	3.4	23
62	Observation of a minimum reaction initiation threshold in ball-milled Ni+Al under high-rate mechanical loading. <i>Journal of Applied Physics</i> , 2011 , 109, 066108	2.5	21
61	Shock-compression of C _N precursors for possible synthesis of α -C ₃ N ₄ . <i>Carbon</i> , 2001 , 39, 1175-1181	10.4	20
60	REACTION SYNTHESIS MECHANISM IN DYNAMICALLY DENSIFIED Ti + C POWDER COMPACTS. <i>Scripta Materialia</i> , 1997 , 37, 1979-1985	5.6	15
59	Exploration of CdTe quantum dots as mesoscale pressure sensors via time-resolved shock-compression photoluminescent emission spectroscopy. <i>Journal of Applied Physics</i> , 2016 , 120, 043107	2.5	14

58	Numerical simulation of shock initiation of Ni/Al multilayered composites. <i>Journal of Applied Physics</i> , 2014 , 115, 023515	2.5	14
57	Equation of state and high pressure properties of a fluorinated terpolymer: THV 500. <i>Journal of Applied Physics</i> , 2008 , 104, 113525	2.5	14
56	Dynamic Mechanical Behavior Characterization of Epoxy-Cast Al + Fe ₂ O ₃ Thermite Mixture Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2697-2715	2.3	14
55	Laser-excited optical emission response of CdTe quantum dot/polymer nanocomposite under shock compression. <i>Applied Physics Letters</i> , 2016 , 108, 011908	3.4	14
54	Investigation of shock-induced and shock-assisted chemical reactions in Mo + 2Si powder mixtures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 15-23	2.3	13
53	Elastic/plastic/cracking indentation behavior of hard materials. <i>International Journal of Refractory Metals and Hard Materials</i> , 2006 , 24, 11-16	4.1	12
52	Reaction sintering of shock-compressed Ti + C powder mixtures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 1749-1759	2.3	12
51	Energy Transfer Mechanisms during Molecular Delivery to Cells by Laser-Activated Carbon Nanoparticles. <i>Biophysical Journal</i> , 2017 , 112, 1258-1269	2.9	11
50	Unraveling the Role of Interfaces on the Spall Failure of Cu/Ta Multilayered Systems. <i>Scientific Reports</i> , 2020 , 10, 208	4.9	11
49	Elastic/plastic deformation behavior in a continuous ball indentation test. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 371, 251-255	5.3	11
48	Rheological Considerations for Binder Development in Direct Ink Writing of Energetic Materials. <i>Propellants, Explosives, Pyrotechnics</i> , 2020 , 45, 26-35	1.7	10
47	Underwater Explosive Shock Consolidation of Nanocomposite Pr ₂ Fe ₁₄ B/α-Fe Magnetic Powders. <i>Materials Transactions</i> , 2005 , 46, 372-375	1.3	9
46	Dynamic high-strain-rate mechanical behavior of microstructurally biased two-phase TiB ₂ +Al ₂ O ₃ ceramics. <i>Journal of Applied Physics</i> , 2002 , 91, 1921-1927	2.5	9
45	Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption. <i>Angewandte Chemie</i> , 2017 , 129, 13126-13131	3.6	8
44	Effect of laser fluence, nanoparticle concentration and total energy input per cell on photoporation of cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 1667-1677	6	7
43	The dynamic behavior of materials: An introduction. <i>Jom</i> , 2010 , 62, 14-15	2.1	7
42	Role of Constituent Configuration on Shock-Induced Reactions in a Ni+Al Powder Mixture. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 896, 41		7
41	Shock-enhanced alpha to beta phase transformation in Si ₃ N ₄ powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 256, 289-300	5.3	6

40	Effect of Shock-Activation on Post-shock Reaction Synthesis of Ternary Ceramics. <i>AIP Conference Proceedings</i> , 2002 ,	0	6
39	Response of Chiral Auxetic Composite Sandwich Panel to Fragment Simulating Projectile Impact. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900099	1.3	6
38	Tailoring Optical Properties of Luminescent Semiconducting Nanocrystals through Hydrostatic, Anisotropic Static, and Dynamic Pressures. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9772-9788	16.4	6
37	Spectral response of multilayer optical structures to dynamic mechanical loading. <i>Applied Physics Letters</i> , 2015 , 106, 201906	3.4	5
36	High-speed x-ray phase contrast imaging and digital image correlation analysis of microscale shock response of an additively manufactured energetic material simulant. <i>Journal of Applied Physics</i> , 2020 , 127, 235902	2.5	5
35	High-strain-rate dynamic mechanical behavior of a bulk metallic glass composite. <i>Journal of Materials Research</i> , 2008 , 23, 998-1008	2.5	5
34	Impact Initiation of Reactive Aluminized Fluorinated Acrylic Nanocomposites. <i>Journal of Dynamic Behavior of Materials</i> , 2016 , 2, 259-271	1.8	4
33	A survey of railgun research at the Georgia Institute of Technology (USA) 2012 ,		4
32	Dynamic deformation and fragmentation response of maraging steel linear cellular alloy 2012 ,		4
31	Shock-assisted synthesis of Ti5Si3 intermetallic compound. <i>Journal of Materials Processing Technology</i> , 1999 , 85, 74-78	5.3	4
30	Relationship between bio-effects and energy transduction during nanoparticle-mediated photoporation. <i>Journal of Applied Physics</i> , 2020 , 128, 173101	2.5	4
29	Role of cytoskeletal mechanics and cell membrane fluidity in the intracellular delivery of molecules mediated by laser-activated carbon nanoparticles. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2390-2399	4.9	3
28	SHOCK COMPACTION OF Gd-DOPED CERIA CERAMICS. <i>International Journal of Modern Physics B</i> , 2008 , 22, 1686-1691	1.1	3
27	Photoporation Using Carbon Nanotubes for Intracellular Delivery of Molecules and Its Relationship to Photoacoustic Pressure. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1701007	10.1	3
26	Microstructural Effects on the Shock Compression Response of Cold-Rolled Ni/Al Multilayers. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1521, 1		2
25	Quantitative characterization of the microstructure of two-phase TiB ₂ +Al ₂ O ₃ ceramics using mean integral curvature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 2671-2678	2.3	2
24	Investigation of Shock-Induced Chemical Reactions in Ni-Ti Powder Mixtures Using Instrumented Experiments. <i>AIP Conference Proceedings</i> , 2002 ,	0	2
23	Influence of Dynamic Densification on Microstructure and Properties of Reaction Synthesized TiC Ceramic. <i>Journal of Materials Synthesis and Processing</i> , 1999 , 7, 49-61		2

22	Particle Strain Analysis of Epoxy-Based Composites Following Quasi-Static and Dynamic Compression. <i>Journal of Dynamic Behavior of Materials</i> , 2019 , 5, 24-38	1.8	1
21	Time-resolved spectral response of asymmetrical optical microcavity structures under laser-driven shock compression. <i>AIP Advances</i> , 2018 , 8, 015021	1.5	1
20	Laser shock compression induced crystallization of Ce3Al metallic glass. <i>Journal of Applied Physics</i> , 2018 , 124, 035904	2.5	1
19	Microstructure-based Simulations of the High-Strain-Rate Response of Heterogeneous Ti/Al/B Reactive Powder Mixtures. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1521, 1		1
18	Mesoscale simulations of particle reinforced epoxy-based composites 2012 ,		1
17	Fabrication of ND-FE-B/ALPHA-FE nanocomposite magnets by shock compaction and heat treatment of mechanically milled powders 2012 ,		1
16	DYNAMIC COMPRESSION OF A ZIRCONIUM-BASED BULK METALLIC GLASS CONFINED BY A 316 STAINLESS STEEL SLEEVE 2008 ,		1
15	Predictive kinetics-based model for shock-activated reaction synthesis of Ti3SiC2. <i>Journal of Materials Research</i> , 2005 , 20, 1476-1484	2.5	1
14	Shock compression of Mo-Si powder mixtures using recovery and instrumented experiments. <i>AIP Conference Proceedings</i> , 2000 ,	0	1
13	Enhanced solid-state reaction kinetics of shock-compressed titanium and carbon powder mixtures. <i>Journal of Materials Research</i> , 1998 , 13, 3160-3173	2.5	1
12	Mechanical Behavior and Quantitative Fractographic Characterization of Hot-Stamped Usibor [®] 1500 Steel as a Function of Strain Rate 2019 , 107-116		1
11	Challenges in Understanding the Dynamic Behavior of Heterogeneous Materials 2020 , 367-397		1
10	Synthesis and characterization of nanocrystalline NiTi shape-memory alloy by shock-compression 2001 , 297-304		1
9	Optimization of intracellular macromolecule delivery by nanoparticle-mediated photoporation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 37, 102431	6	1
8	Spall failure of additively manufactured two-layered CuNi bimetallic alloys. <i>Journal of Applied Physics</i> , 2022 , 131, 175901	2.5	1
7	Dynamic Impact Characterization of Al+Fe2O3+30% Epoxy Composites Using Time Synchronized High-Speed Camera and VISAR Measurements. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 896, 1		0
6	Serum Protects Cells and Increases Intracellular Delivery of Molecules by Nanoparticle-Mediated Photoporation. <i>International Journal of Nanomedicine</i> , 2021 , 16, 3707-3724	7.3	0
5	Microstructure Quantification and Multiresolution Mechanical Characterization of Ti-Based Bulk Metallic Glass-Matrix Composites. <i>Jom</i> , 1	2.1	0

- 4 Innenröktitelbild: Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption (Angew. Chem. 42/2017). *Angewandte Chemie*, **2017**, 129, 13331-13331 3.6
- 3 Novel Synthesis Techniques **2002**, 723-748
- 2 High-Strain-Rate Dynamic Mechanical Properties of a W-Reinforced Zr-Based Bulk Metallic Glass Composite. *Materials Research Society Symposia Proceedings*, **2005**, 903, 1
- 1 Tailoring Optical Properties of Luminescent Semiconducting Nanocrystals through Hydrostatic, Anisotropic Static, and Dynamic Pressures. *Angewandte Chemie*, **2021**, 133, 9856-9872 3.6