Curtis R Taylor

List of Publications by Year
in descending order

32	715	567281 15	552781 26
papers	citations	h-index	g-index

33	33	33	1130
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three-dimensional printing with sacrificial materials for soft matter manufacturing. MRS Bulletin, 2017, 42, 571-577.	3.5	108
2	Tip-based nanomanufacturing by electrical, chemical, mechanical and thermal processes. CIRP Annals - Manufacturing Technology, 2010, 59, 628-651.	3.6	84
3	Spaceflightâ€induced alterations in cerebral artery vasoconstrictor, mechanical, and structural properties: implications for elevated cerebral perfusion and intracranial pressure. FASEB Journal, 2013, 27, 2282-2292.	0.5	80
4	ZnO Nanowires Synthesized by Vapor Phase Transport Deposition on Transparent Oxide Substrates. Nanoscale Research Letters, 2010, 5, 1333-1339.	5.7	55
5	Deformation mechanisms in silicon nanoparticles. Journal of Applied Physics, 2011, 109, .	2.5	51
6	Emerging Challenges of Microactuators for Nanoscale Positioning, Assembly, and Manipulation. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	2.2	43
7	Structural remodeling of coronary resistance arteries: effects of age and exercise training. Journal of Applied Physiology, 2014, 117, 616-623.	2.5	37
8	Very hard ZrC thin films grown by pulsed laser deposition. Journal of the European Ceramic Society, 2013, 33, 2223-2226.	5.7	34
9	Nanoscale dislocation patterning by ultralow load indentation. Applied Physics Letters, 2005, 87, 073108.	3.3	26
10	Wear tests of ZrC and ZrN thin films grown by pulsed laser deposition. Applied Surface Science, 2014, 306, 33-36.	6.1	26
11	Very hard TiN thin films grown by pulsed laser deposition. Applied Surface Science, 2012, 260, 2-6.	6.1	22
12	The effect of deposition atmosphere on the chemical composition of TiN and ZrN thin films grown by pulsed laser deposition. Applied Surface Science, 2014, 302, 124-128.	6.1	21
13	Nanomechanics of CdSe quantum dotâ€“polymer nanocomposite films. Nanotechnology, 2010, 21, 225703.	2.6	18
14	Optical and mechanical properties of nanocrystalline ZrC thin films grown by pulsed laser deposition. Applied Surface Science, 2015, 352, 28-32.	6.1	17
15	A Highly Compliant Serpentine Shaped Polyimide Interconnect for Front-End Strain Relief in Chronic Neural Implants. Frontiers in Neurology, 2013, 4, 124.	2.4	16
16	Characterization of ultra-low-load (ÂµN) nanoindents in GaAs(100) using a cube corner tip. Smart Materials and Structures, 2005, 14, 963-970.	3.5	13
17	Low temperature deposition of zinc oxide nanoparticles via zinc-rich vapor phase transport and condensation. Journal of Crystal Growth, 2010, 312, 3675-3679.	1.5	12
18	Design and Fabrication of an Automatic Nanoscale Tool-Tip Exchanger for Scanning Probe Microscopy. , 2011, , .		8

#	Article	IF	Citations
19	Determination of post-yield hardening response in a ZrB2 ceramic. Scripta Materialia, 2011, 65, 962-965.	5.2	8
20	Effect of Varying Test Parameters on Elasticâ€“plastic Properties Extracted by Nanoindentation Tests. Experimental Mechanics, 2013, 53, 1299-1309.	2.0	7
21	Nanoscale Surface Modifications by Magnetic Field-Assisted Finishing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	2.2	7
22	Fabrication, Characterization, and Modeling of Fully-Batch-Fabricated Piston-Type Electrodynamic Microactuators. Journal of Microelectromechanical Systems, 2014, 23, 220-229.	2.5	7
23	Pulsed laser deposition of nanocrystalline SiC films. Applied Surface Science, 2014, 306, 66-69.	6.1	5
24	Design and Analysis of Scanning Probe Microscopy Cantilevers With Microthermal Actuation. Journal of Microelectromechanical Systems, 2015, 24, 1768-1781.	2.5	2
25	Switchable Friction Coefficient on Shape Memory Photonic Crystals. MRS Advances, 2020, 5, 757-763.	0.9	2
26	Development Of A Nanoscale Virtual Environment Haptic Interface For Teaching Nanotechnology To Individuals Who Are Visually Impaired. , 0, , .		2
27	Three-dimensional visualization of nanoscale structure and deformation. Journal of Materials Research, 2013, 28, 2637-2643.	2.6	1
28	Mechanically Biased Self-Assembly of Quantum Dots by Nanoindentation. Materials Research Society Symposia Proceedings, 2006, 921, 1.	0.1	0
29	Extension of a Microscale Indentation Fracture Model to Nanoscale Contact in Purview of Mechanical Nanofabrication Processes. , 2012, , .		0
30	Effects of spaceflight on vasoconstrictor and mechanical properties of mouse cerebral arteries. FASEB Journal, 2012, 26, .	0.5	0
31	A Retrospective on Undergraduate Engineering Success for Underrepresented and First-Year Students. , 0, , .		0
32	Development of Haptic Virtual Reality Gaming Environments for Teaching Nanotechnology. , 0, , .		0