

# Curtis R Taylor

## List of Publications by Year in descending order

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32  
papers

715  
citations

567281

15  
h-index

552781

26  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Switchable Friction Coefficient on Shape Memory Photonic Crystals. MRS Advances, 2020, 5, 757-763.	0.9	2
2	Three-dimensional printing with sacrificial materials for soft matter manufacturing. MRS Bulletin, 2017, 42, 571-577.	3.5	108
3	Design and Analysis of Scanning Probe Microscopy Cantilevers With Microthermal Actuation. Journal of Microelectromechanical Systems, 2015, 24, 1768-1781.	2.5	2
4	Optical and mechanical properties of nanocrystalline ZrC thin films grown by pulsed laser deposition. Applied Surface Science, 2015, 352, 28-32.	6.1	17
5	Pulsed laser deposition of nanocrystalline SiC films. Applied Surface Science, 2014, 306, 66-69.	6.1	5
6	Wear tests of ZrC and ZrN thin films grown by pulsed laser deposition. Applied Surface Science, 2014, 306, 33-36.	6.1	26
7	Fabrication, Characterization, and Modeling of Fully-Batch-Fabricated Piston-Type Electrodynamic Microactuators. Journal of Microelectromechanical Systems, 2014, 23, 220-229.	2.5	7
8	Structural remodeling of coronary resistance arteries: effects of age and exercise training. Journal of Applied Physiology, 2014, 117, 616-623.	2.5	37
9	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
10	Effect of Varying Test Parameters on Elastic-plastic Properties Extracted by Nanoindentation Tests. Experimental Mechanics, 2013, 53, 1299-1309.	2.0	7
11	Spaceflight-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
12	Very hard ZrC thin films grown by pulsed laser deposition. Journal of the European Ceramic Society, 2013, 33, 2223-2226.	5.7	34
13	Nanoscale Surface Modifications by Magnetic Field-Assisted Finishing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	2.2	7
14	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
15	Three-dimensional visualization of nanoscale structure and deformation. Journal of Materials Research, 2013, 28, 2637-2643.	2.6	1
16	Extension of a Microscale Indentation Fracture Model to Nanoscale Contact in Purview of Mechanical Nanofabrication Processes. , 2012, , .		0
17	Very hard TiN thin films grown by pulsed laser deposition. Applied Surface Science, 2012, 260, 2-6.	6.1	22
18	Effects of spaceflight on vasoconstrictor and mechanical properties of mouse cerebral arteries. FASEB Journal, 2012, 26, .	0.5	0

#	ARTICLE	IF	CITATIONS
19	Design and Fabrication of an Automatic Nanoscale Tool-Tip Exchanger for Scanning Probe Microscopy. , 2011, , .		8
20	Determination of post-yield hardening response in a ZrB <sub>2</sub> ceramic. Scripta Materialia, 2011, 65, 962-965.	5.2	8
21	Deformation mechanisms in silicon nanoparticles. Journal of Applied Physics, 2011, 109, .	2.5	51
22	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
23	ZnO Nanowires Synthesized by Vapor Phase Transport Deposition on Transparent Oxide Substrates. Nanoscale Research Letters, 2010, 5, 1333-1339.	5.7	55
24	Tip-based nanomanufacturing by electrical, chemical, mechanical and thermal processes. CIRP Annals - Manufacturing Technology, 2010, 59, 628-651.	3.6	84
25	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
26	Nanomechanics of CdSe quantum dot-polymer nanocomposite films. Nanotechnology, 2010, 21, 225703.	2.6	18
27	Mechanically Biased Self-Assembly of Quantum Dots by Nanoindentation. Materials Research Society Symposia Proceedings, 2006, 921, 1.	0.1	0
28	Characterization of ultra-low-load ( $\hat{\text{A}}\mu\text{N}$ ) nanoindents in GaAs(100) using a cube corner tip. Smart Materials and Structures, 2005, 14, 963-970.	3.5	13
29	Nanoscale dislocation patterning by ultralow load indentation. Applied Physics Letters, 2005, 87, 073108.	3.3	26
30	A Retrospective on Undergraduate Engineering Success for Underrepresented and First-Year Students. , 0, , .		0
31	Development of Haptic Virtual Reality Gaming Environments for Teaching Nanotechnology. , 0, , .		0
32	Development Of A Nanoscale Virtual Environment Haptic Interface For Teaching Nanotechnology To Individuals Who Are Visually Impaired. , 0, , .		2