

Ting Y Tsui

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/618277/publications.pdf>

Version: 2024-02-01

55
papers

2,895
citations

304602

22
h-index

168321

53
g-index

55
all docs

55
docs citations

55
times ranked

3019
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic properties of human cortical and trabecular lamellar bone measured by nanoindentation. <i>Biomaterials</i> , 1997, 18, 1325-1330.	5.7	791
2	The elastic properties of trabecular and cortical bone tissues are similar: results from two microscopic measurement techniques. <i>Journal of Biomechanics</i> , 1999, 32, 437-441.	0.9	468
3	Indentation-induced phase transformations in silicon: influences of load, rate and indenter angle on the transformation behavior. <i>Acta Materialia</i> , 2005, 53, 1759-1770.	3.8	286
4	Hardness, elastic modulus, and structure of very hard carbon films produced by cathodic arc deposition with substrate pulse biasing. <i>Applied Physics Letters</i> , 1996, 68, 779-781.	1.5	255
5	Mechanical and morphological variation of the human lumbar vertebral cortical and trabecular bone. <i>Journal of Biomedical Materials Research Part B</i> , 1999, 44, 191-197.	3.0	138
6	Increased time-dependent room temperature plasticity in metallic glass nanopillars and its size-dependency. <i>International Journal of Plasticity</i> , 2012, 37, 108-118.	4.1	83
7	Properties of silicon—aluminum—yttrium oxynitride glasses. <i>Journal of Non-Crystalline Solids</i> , 1996, 208, 162-169.	1.5	67
8	PECVD low-permittivity organosilicate glass coatings: Adhesion, fracture and mechanical properties. <i>Acta Materialia</i> , 2008, 56, 4932-4943.	3.8	56
9	Fabrication, microstructure, and mechanical properties of tin nanostructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5822-5832.	2.6	54
10	Constraint Effects on Thin Film Channel Cracking Behavior. <i>Journal of Materials Research</i> , 2005, 20, 2266-2273.	1.2	52
11	Octamethylcyclotetrasiloxane-Based, Low-Permittivity Organosilicate Coatings. <i>Journal of the Electrochemical Society</i> , 2006, 153, F144.	1.3	48
12	The effect of porogen loading on the stiffness and fracture energy of brittle organosilicates. <i>Journal of Materials Research</i> , 2009, 24, 107-116.	1.2	41
13	Cell responses to metallic nanostructure arrays with complex geometries. <i>Biomaterials</i> , 2014, 35, 9363-9371.	5.7	37
14	Fabrication, structure and mechanical properties of indium nanopillars. <i>Acta Materialia</i> , 2010, 58, 1361-1368.	3.8	36
15	A method for making substrate-independent hardness measurements of soft metallic films on hard substrates by nanoindentation. <i>Journal of Materials Research</i> , 2003, 18, 1383-1391.	1.2	32
16	Plasticity of indium nanostructures as revealed by synchrotron X-ray microdiffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 538, 89-97.	2.6	31
17	Water diffusion and fracture behavior in nanoporous low-k dielectric film stacks. <i>Journal of Applied Physics</i> , 2009, 106, 033503.	1.1	30
18	Grain boundary effects on the mechanical properties of bismuth nanostructures. <i>Acta Materialia</i> , 2011, 59, 4709-4718.	3.8	30

#	ARTICLE	IF	CITATIONS
19	Photochemical deterioration of the organic/metal contacts in organic optoelectronic devices. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	28
20	Water diffusion and fracture in organosilicate glass film stacks. <i>Acta Materialia</i> , 2007, 55, 2455-2464.	3.8	27
21	Responses of <i>Staphylococcus aureus</i> bacterial cells to nanocrystalline nickel nanostructures. <i>Biomaterials</i> , 2014, 35, 4249-4254.	5.7	26
22	Plastic deformation of indium nanostructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6112-6120.	2.6	25
23	Bacterial Networks on Hydrophobic Micropillars. <i>ACS Nano</i> , 2017, 11, 675-683.	7.3	25
24	Thermal nanoimprint lithography using fluoropolymer mold. <i>Microelectronic Engineering</i> , 2012, 98, 246-249.	1.1	21
25	Substrate comparison for polypyrrole-graphene based high-performance flexible supercapacitors. <i>Electrochimica Acta</i> , 2020, 358, 136846.	2.6	21
26	Study of Cu diffusion in porous dielectrics using secondary-ion-mass spectrometry. <i>Journal of Applied Physics</i> , 2005, 98, 123514.	1.1	20
27	Differential Collective- and Single-Cell Behaviors on Silicon Micropillar Arrays. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23604-23613.	4.0	19
28	A new technique to measure through film thickness fracture toughness. <i>Thin Solid Films</i> , 2001, 401, 203-210.	0.8	14
29	Fabrication and buckling behavior of polycrystalline palladium, cobalt, and rhodium nanostructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 542, 40-48.	2.6	12
30	Influence of grain size on the strength size dependence exhibited by sub-micron scale nickel structures with complex cross-sectional geometries. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 596, 275-284.	2.6	11
31	Statistical analysis of the size- and rate-dependence of yield and plastic flow in nanocrystalline copper pillars. <i>Acta Materialia</i> , 2017, 127, 332-340.	3.8	11
32	Modulation of mechanical properties and stable light energy harvesting by poling in polymer integrated perovskite films: a wide range, linear and highly sensitive tactile sensor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14192-14198.	5.2	11
33	Nanoscale-Textured Tantalum Surfaces for Mammalian Cell Alignment. <i>Micromachines</i> , 2018, 9, 464.	1.4	9
34	The effect of elastic modulus on channel crack propagation in organosilicate glass films. <i>Thin Solid Films</i> , 2006, 515, 2257-2261.	0.8	8
35	Pattern-Dependent Mammalian Cell (Vero) Morphology on Tantalum/Silicon Oxide 3D Nanocomposites. <i>Materials</i> , 2018, 11, 1306.	1.3	7
36	Effects of ultraviolet radiation on ultra-low-dielectric constant thin film fracture properties. <i>Journal of Materials Research</i> , 2009, 24, 2795-2801.	1.2	6

#	ARTICLE	IF	CITATIONS
37	Analysis of Ultraviolet Curing Effect on the Dielectric Constant and Molecular Structure of a Porous Dielectric Film. <i>Journal of Electronic Materials</i> , 2010, 39, 2337-2345.	1.0	6
38	Fabrication, microstructure, and mechanical properties of high strength cobalt sub-micron structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 104-111.	2.6	6
39	Mechanical Contact Characteristics of PC3 Human Prostate Cancer Cells on Complex-Shaped Silicon Micropillars. <i>Materials</i> , 2017, 10, 892.	1.3	6
40	Manipulating mammalian cell morphologies using chemical-mechanical polished integrated circuit chips. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 839-856.	2.8	6
41	Microstructure and mechanical properties of sub-micron zinc structures. <i>Journal of Materials Research</i> , 2012, 27, 2140-2147.	1.2	4
42	Mechanical properties of columnar submicron cobalt structures with various cross-sectional geometries. <i>Scripta Materialia</i> , 2012, 67, 463-466.	2.6	4
43	Influence of Antimycin A, a bacterial toxin, on human dermal fibroblast cell adhesion to tungsten-silicon oxide nanocomposites. <i>Journal of Experimental Nanoscience</i> , 2019, 14, 69-88.	1.3	4
44	The effects of low temperature and pressure on the fracture behaviors of organosilicate thin films. <i>Journal of Materials Research</i> , 2011, 26, 2524-2532.	1.2	3
45	Microstructural and Geometrical Effects on the Deformation Behavior of Sub-micron Scale Nanocrystalline Copper Pillars. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 1061-1071.	1.1	3
46	Influence of grain boundary modifier on the strength size-dependence displayed by complex-shaped nanocrystalline nickel pillars. <i>Thin Solid Films</i> , 2017, 621, 178-183.	0.8	3
47	Editorial for the Special Issue on Small-Scale Deformation using Advanced Nanoindentation Techniques. <i>Micromachines</i> , 2019, 10, 269.	1.4	3
48	Geometric effects on the mechanical strengths of strong nanocrystalline rhodium sub-micron structures. <i>Philosophical Magazine</i> , 2015, 95, 1751-1765.	0.7	2
49	Adhesion characteristics of <i>Staphylococcus aureus</i> bacterial cells on funnel-shaped palladium-cobalt alloy nanostructures. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 480-489.	1.3	2
50	What's Happening on the Other Side? Revealing Nano-Meter Scale Features of Mammalian Cells on Engineered Textured Tantalum Surfaces. <i>Materials</i> , 2019, 12, 114.	1.3	2
51	Limitation in Controlling the Morphology of Mammalian Vero Cells Induced by Cell Division on Asymmetric Tungsten-Silicon Oxide Nanocomposite. <i>Materials</i> , 2020, 13, 335.	1.3	2
52	Influence of Indium (III) Chloride on Human Dermal Fibroblast Cell Adhesion on Tantalum/Silicon Oxide Nano-Composites. <i>Materials</i> , 2022, 15, 3577.	1.3	2
53	Suppression of size-dependent softening effects in sub-micron nanocrystalline ruthenium columnar structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 565, 219-227.	2.6	1
54	Fabrication and mechanical properties of sub-micron nanocrystalline rhenium-nickel alloy pillars. <i>Materials Letters</i> , 2015, 149, 113-115.	1.3	0

#	ARTICLE	IF	CITATIONS
55	Trapping polystyrene and latex nanospheres inside hollow nanostructures using <i>Staphylococcus aureus</i> cells. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 303-313.	1.3	0