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	Influence of Indium (III) Chloride on Human Dermal Fibroblast Cell Adhesion on Tantalum/Silicon Oxide Nano-Composites. Materials, 2022, 15, 3577.	1.3	2
2	Substrate comparison for polypyrrole-graphene based high-performance flexible supercapacitors. Electrochimica Acta, 2020, 358, 136846.	2.6	21
3	Limitation in Controlling the Morphology of Mammalian Vero Cells Induced by Cell Division on Asymmetric Tungsten-Silicon Oxide Nanocomposite. Materials, 2020, 13, 335.	1.3	2
4	Influence of Antimycin A, a bacterial toxin, on human dermal fibroblast cell adhesion to tungsten-silicon oxide nanocomposites. Journal of Experimental Nanoscience, 2019, 14, 69-88.	1.3	4
5	Whatâ€™s Happening on the Other Side? Revealing Nano-Meter Scale Features of Mammalian Cells on Engineered Textured Tantalum Surfaces. Materials, 2019, 12, 114.	1.3	2
6	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. Journal of Materials Chemistry A, 2019, 7, 14192-14198.	5.2	11
7	Editorial for the Special Issue on Small-Scale Deformation using Advanced Nanoindentation Techniques. Micromachines, 2019, 10, 269.	1.4	3
8	Nanoscale-Textured Tantalum Surfaces for Mammalian Cell Alignment. Micromachines, 2018, 9, 464.	1.4	9
9	Pattern-Dependent Mammalian Cell (Vero) Morphology on Tantalum/Silicon Oxide 3D Nanocomposites. Materials, 2018, 11, 1306.	1.3	7
10	Influence of grain boundary modifier on the strength size-dependence displayed by complex-shaped nanocrystalline nickel pillars. Thin Solid Films, 2017, 621, 178-183.	0.8	3
11	Statistical analysis of the size- and rate-dependence of yield and plastic flow in nanocrystalline copper pillars. Acta Materialia, 2017, 127, 332-340.	3.8	11
12	Bacterial Networks on Hydrophobic Micropillars. ACS Nano, 2017, 11, 675-683.	7.3	25
13	Mechanical Contact Characteristics of PC3 Human Prostate Cancer Cells on Complex-Shaped Silicon Micropillars. Materials, 2017, 10, 892.	1.3	6
14	Manipulating mammalian cell morphologies using chemical-mechanical polished integrated circuit chips. Science and Technology of Advanced Materials, 2017, 18, 839-856.	2.8	6
15	Differential Collective- and Single-Cell Behaviors on Silicon Micropillar Arrays. ACS Applied Materials & Interfaces, 2016, 8, 23604-23613.	4.0	19
16	Microstructural and Geometrical Effects on the Deformation Behavior of Sub-micron Scale Nanocrystalline Copper Pillars. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1061-1071.	1.1	3
17	Adhesion characteristics ofStaphylococcus aureusbacterial cells on funnel-shaped palladiumâ€“cobalt alloy nanostructures. Journal of Experimental Nanoscience, 2016, 11, 480-489.	1.3	2
18	Trapping polystyrene and latex nanospheres inside hollow nanostructures usingStaphylococcus aureuscells. Journal of Experimental Nanoscience, 2016, 11, 303-313.	1.3	0

#	Article	IF	Citations
19	Fabrication and mechanical properties of sub-micron nanocrystalline rheniumâ€“nickel alloy pillars. Materials Letters, 2015, 149, 113-115.	1.3	0
20	Geometric effects on the mechanical strengths of strong nanocrystalline rhodium sub-micron structures. Philosophical Magazine, 2015, 95, 1751-1765.	0.7	2
21	Responses of Staphylococcus aureus bacterial cells to nanocrystalline nickel nanostructures. Biomaterials, 2014, 35, 4249-4254.	5.7	26
22	Influence of grain size on the strength size dependence exhibited by sub-micron scale nickel structures with complex cross-sectional geometries. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 596, 275-284.	2.6	11
23	Cell responses to metallic nanostructure arrays with complex geometries. Biomaterials, 2014, 35, 9363-9371.	5.7	37
24	Suppression of size-dependent softening effects in sub-micron nanocrystalline ruthenium columnar structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 565, 219-227.	2.6	1
25	Microstructure and mechanical properties of sub-micron zinc structures. Journal of Materials Research, 2012, 27, 2140-2147.	1.2	4
26	Increased time-dependent room temperature plasticity in metallic glass nanopillars and its size-dependency. International Journal of Plasticity, 2012, 37, 108-118.	4.1	83
27	Thermal nanoimprint lithography using fluoropolymer mold. Microelectronic Engineering, 2012, 98, 246-249.	1.1	21
28	Photochemical deterioration of the organic/metal contacts in organic optoelectronic devices. Journal of Applied Physics, 2012, 112, .	1.1	28
29	Mechanical properties of columnar submicron cobalt structures with various cross-sectional geometries. Scripta Materialia, 2012, 67, 463-466.	2.6	4
30	Fabrication, microstructure, and mechanical properties of high strength cobalt sub-micron structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 552, 104-111.	2.6	6
31	Plasticity of indium nanostructures as revealed by synchrotron X-ray microdiffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 538, 89-97.	2.6	31
32	Fabrication and buckling behavior of polycrystalline palladium, cobalt, and rhodium nanostructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 542, 40-48.	2.6	12
33	Fabrication, microstructure, and mechanical properties of tin nanostructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5822-5832.	2.6	54
34	Grain boundary effects on the mechanical properties of bismuth nanostructures. Acta Materialia, 2011, 59, 4709-4718.	3.8	30
35	Plastic deformation of indium nanostructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6112-6120.	2.6	25
36	The effects of low temperature and pressure on the fracture behaviors of organosilicate thin films. Journal of Materials Research, 2011, 26, 2524-2532.	1.2	3

#	Article	IF	Citations
37	Fabrication, structure and mechanical properties of indium nanopillars. Acta Materialia, 2010, 58, 1361-1368.	3.8	36
38	Analysis of Ultraviolet Curing Effect on the Dielectric Constant and Molecular Structure of a Porous Dielectric Film. Journal of Electronic Materials, 2010, 39, 2337-2345.	1.0	6
39	The effect of porogen loading on the stiffness and fracture energy of brittle organosilicates. Journal of Materials Research, 2009, 24, 107-116.	1.2	41
40	Effects of ultraviolet radiation on ultra-low-dielectric constant thin film fracture properties. Journal of Materials Research, 2009, 24, 2795-2801.	1.2	6
41	Water diffusion and fracture behavior in nanoporous low-k dielectric film stacks. Journal of Applied Physics, 2009, 106, 033503.	1.1	30
42	PECVD low-permittivity organosilicate glass coatings: Adhesion, fracture and mechanical properties. Acta Materialia, 2008, 56, 4932-4943.	3.8	56
43	Water diffusion and fracture in organosilicate glass film stacks. Acta Materialia, 2007, 55, 2455-2464.	3.8	27
44	The effect of elastic modulus on channel crack propagation in organosilicate glass films. Thin Solid Films, 2006, 515, 2257-2261.	0.8	8
45	Octamethylcyclotetrasiloxane-Based, Low-Permittivity Organosilicate Coatings. Journal of the Electrochemical Society, 2006, 153, F144.	1.3	48
46	Indentation-induced phase transformations in silicon: influences of load, rate and indenter angle on the transformation behavior. Acta Materialia, 2005, 53, 1759-1770.	3.8	286
47	Study of Cu diffusion in porous dielectrics using secondary-ion-mass spectrometry. Journal of Applied Physics, 2005, 98, 123514.	1.1	20
48	Constraint Effects on Thin Film Channel Cracking Behavior. Journal of Materials Research, 2005, 20, 2266-2273.	1.2	52
49	A method for making substrate-independent hardness measurements of soft metallic films on hard substrates by nanoindentation. Journal of Materials Research, 2003, 18, 1383-1391.	1.2	32
50	A new technique to measure through film thickness fracture toughness. Thin Solid Films, 2001, 401, 203-210.	0.8	14
51	The elastic properties of trabecular and cortical bone tissues are similar: results from two microscopic measurement techniques. Journal of Biomechanics, 1999, 32, 437-441.	0.9	468
52	Mechanical and morphological variation of the human lumbar vertebral cortical and trabecular bone. Journal of Biomedical Materials Research Part B, 1999, 44, 191-197.	3.0	138
53	Elastic properties of human cortical and trabecular lamellar bone measured by nanoindentation. Biomaterials, 1997, 18, 1325-1330.	5.7	791
54	Hardness, elastic modulus, and structure of very hard carbon films produced by cathodicâ€arc deposition with substrate pulse biasing. Applied Physics Letters, 1996, 68, 779-781.	1.5	255

#	Article	IF	Citations
55	Properties of siliconî—¸aluminumî—¸yttrium oxynitride glasses. Journal of Non-Crystalline Solids, 1996, 208, 162-169.	1.5	67