Y Danyuo

List of Publications by Year in descending order

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67 papers	1,986 citations	218677 26 h-index	254184 43 g-index
69 all docs	69 docs citations	69 times ranked	2044 citing authors

#	Article	IF	Citations
1	Mechanical properties of functionally graded hierarchical bamboo structures. Acta Biomaterialia, 2011, 7, 3796-3803.	8.3	260
2	Nano-second UV laser processed micro-grooves on Ti6Al4V for biomedical applications. Materials Science and Engineering C, 2009, 29, 5-13.	7.3	94
3	Compressionâ€“compression fatigue of open cell aluminum foams: macro-/micro- mechanisms and the effects of heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 369, 23-35.	5.6	89
4	Mechanisms and mechanics of compressive deformation in open-cell Al foams. Mechanics of Materials, 2004, 36, 781-797.	3.2	82
5	LHRH-functionalized superparamagnetic iron oxide nanoparticles for breast cancer targeting and contrast enhancement in MRI. Materials Science and Engineering C, 2009, 29, 1467-1479.	7.3	77
6	An investigation of fatigue in LIGA Ni MEMS thin films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 371, 256-266.	5.6	76
7	Extraction and encapsulation of prodigiosin in chitosan microspheres for targeted drug delivery. Materials Science and Engineering C, 2017, 71, 268-278.	7.3	72
8	PLGA-based microparticles loaded with bacterial-synthesized prodigiosin for anticancer drug release: Effects of particle size on drug release kinetics and cell viability. Materials Science and Engineering C, 2016, 66, 51-65.	7.3	65
9	Anomalous Release Kinetics of Prodigiosin from Poly-N-Isopropyl-Acrylamid based Hydrogels for The Treatment of Triple Negative Breast Cancer. Scientific Reports, 2019, 9, 3862.	3.3	60
10	An investigation of fatigue crack nucleation and growth in a Tiâ€“6Alâ€“4V/TiB in situ composite. Mechanics of Materials, 2004, 36, 141-159.	3.2	54
11	An investigation of the effects of microstructure on dwell fatigue crack growth in Ti-6242. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 405, 111-134.	5.6	52
12	Mechanical properties, modeling and design of porous clay ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 21-29.	5.6	47
13	Biosynthesis and the conjugation of magnetite nanoparticles with luteinizing hormone releasing hormone (LHRH). Materials Science and Engineering C, 2015, 46, 482-496.	7.3	47
14	Swelling and diffusion characteristics of modified poly (N-isopropylacrylamide) hydrogels. Materials Science and Engineering C, 2010, 30, 8-13.	7.3	46
15	An investigation of short and long fatigue crack growth behavior of Tiâ€“6Alâ€“4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 287, 30-42.	5.6	44
16	Enhanced cellular uptake of LHRH-conjugated PEG-coated magnetite nanoparticles for specific targeting of triple negative breast cancer cells. Materials Science and Engineering C, 2018, 88, 32-45.	7.3	41
17	Bioinspired design of dental multilayers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 464, 315-320.	5.6	40
18	Fatigue and Fracture of a Bulk Nanocrystalline NiFe Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1145-1156.	2.2	40

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19	Degradable porous drug-loaded polymer scaffolds for localized cancer drug delivery and breast cell/tissue growth. Materials Science and Engineering C, 2020, 112, 110794.	7.3	38
20	Mixed mode fracture of marble/adhesive interfaces. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4939-4946.	5.6	37
21	Synthesis and characterization of hydroxyapatite from bovine bone for production of dental implants. Journal of Applied Biomaterials and Functional Materials, 2019, 17, 228080001983682.	1.6	35
22	Strain gradient plasticity length scale parameters for LIGA Ni MEMs thin films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 441, 299-307.	5.6	32
23	An investigation of the effects of microstructure and stress ratio on fatigue crack growth in Tiâ€“6Alâ€“4V with colony Î±/Î² microstructures. Mechanics of Materials, 2004, 36, 161-175.	3.2	30
24	Biosynthesis and adhesion of gold nanoparticles for breast cancer detection and treatment. Journal of Materials Research, 2012, 27, 2891-2901.	2.6	30
25	On the evolution of surface morphology of polysilicon MEMS structures during fatigue. Mechanics of Materials, 2004, 36, 35-44.	3.2	28
26	Biosynthesis of Gold Nanoparticles and Gold/Prodigiosin Nanoparticles with Serratia marcescens Bacteria. Waste and Biomass Valorization, 2017, 8, 2045-2059.	3.4	27
27	Prodigiosin-loaded electrospun nanofibers scaffold for localized treatment of triple negative breast cancer. Materials Science and Engineering C, 2020, 114, 110976.	7.3	27
28	An investigation of fatigue crack growth in a cast lamellar Tiî—¸48Alî—¸2Crî—¸2Nb alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 284, 235-245.	5.6	26
29	Swelling of poly(N-isopropylacrylamide) P(NIPA)-based hydrogels with bacterial-synthesized prodigiosin for localized cancer drug delivery. Materials Science and Engineering C, 2016, 59, 19-29.	7.3	25
30	Prodigiosin release from an implantable biomedical device: kinetics of localized cancer drug release. Materials Science and Engineering C, 2014, 42, 734-745.	7.3	24
31	Effects of temperature on diffusion from PNIPA-based gels in a BioMEMS device for localized chemotherapy and hyperthermia. Materials Science and Engineering C, 2011, 31, 67-76.	7.3	23
32	Cell/surface interactions of human osteo-sarcoma (HOS) cells and micro-patterned polydimelthylsiloxane (PDMS) surfaces. Materials Science and Engineering C, 2009, 29, 2011-2018.	7.3	21
33	Probabilistic modeling of fatigue crack growth in Tiâ€“6Alâ€“4V. International Journal of Fatigue, 2001, 23, 917-925.	5.7	19
34	A physically-based model for the prediction of long fatigue crack growth in Tiâ€“6Alâ€“4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 315, 1-10.	5.6	18
35	Compressive deformation and failure of trabecular structures in a turtle shell. Acta Biomaterialia, 2019, 97, 535-543.	8.3	18
36	Fatigue crack propagation and fracture characteristics of in-situ titanium-matrix composites. International Journal of Fatigue, 2000, 22, 161-174.	5.7	17

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37	Interfacial failure of a dental cement composite bonded to glass substrates. Dental Materials, 2006, 22, 585-591.	3.5	17
38	Shear assay measurements of cell adhesion on biomaterials surfaces. Materials Science and Engineering C, 2009, 29, 1293-1301.	7.3	15
39	Swelling and diffusion of PNIPA-based gels for localized chemotherapy and hyperthermia. Materials Science and Engineering C, 2012, 32, 24-30.	7.3	15
40	A TEM study of functionalized magnetic nanoparticles targeting breast cancer cells. Materials Science and Engineering C, 2006, 26, 1451-1455.	7.3	14
41	Microstructure and mechanical properties of a Î² Nbâ€“Ti based alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 328, 122-132.	5.6	13
42	Mechanical and Physical Properties of Laterite Bricks Reinforced with Reprocessed Polyethylene Waste for Building Applications. Journal of Materials in Civil Engineering, 2018, 30, 04018039.	2.9	13
43	Investigation of effects of Argenineâ€“Glycineâ€“Aspartate (RGD) and nano-scale titanium coatings on cell spreading and adhesion. Materials Science and Engineering C, 2009, 29, 306-314.	7.3	12
44	Investigation of the spreading and adhesion of human osteosarcoma cells on smooth and micro-grooved polydimethylsiloxane surfaces. Materials Science and Engineering C, 2009, 29, 119-125.	7.3	11
45	Fatigue of LIGA Ni Micro-Electro-Mechanical System Thin Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 2340-2348.	2.2	10
46	An in-vitro study of the effects of temperature on breast cancer cells: Experiments and models. Materials Science and Engineering C, 2012, 32, 2242-2249.	7.3	10
47	Synergistic toughening of a hybrid NiAl composite reinforced with partially stabilized zirconia and molybdenum particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 271, 491-495.	5.6	9
48	Triptorelin-functionalized PEG-coated biosynthesized gold nanoparticles: Effects of receptor-ligand interactions on adhesion to triple negative breast cancer cells. , 2022, 136, 212801.		9
49	An investigation of the effects of temperature on fatigue crack growth in a cast lamellar Tiâ€“45Alâ€“2Mnâ€“2Nb+0.8 vol.% TiB2 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 319-321, 618-624.	5.6	8
50	Prodigiosin Release from an Implantable Biomedical Device: Effect on Cell Viability. Advanced Materials Research, 0, 1132, 3-18.	0.3	8
51	A comparative study of the adhesion of biosynthesized gold and conjugated gold/prodigiosin nanoparticles to triple negative breast cancer cells. Journal of Materials Science: Materials in Medicine, 2017, 28, 143.	3.6	8
52	In vitro studies of Annona muricata L . extractâ€loaded electrospun scaffolds for localized treatment of breast cancer. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 2041-2056.	3.4	7
53	Computational modeling of drug diffusion and inductive heating in an implantable biomedical device for localized thermo-chemotherapy of cancer cells/tissue. Cogent Engineering, 2018, 5, 1463814.	2.2	6
54	A shear assay study of single normal/breast cancer cell deformation and detachment from poly-di-methyl-siloxane (PDMS) surfaces. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 91, 76-90.	3.1	6

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55	A probabilistic multiparameter framework for the modeling of fatigue crack growth in concrete. Cement and Concrete Composites, 2003, 25, 607-615.	10.7	5
56	Biosynthesis of Gold Nanoparticles from <i>Nauclea latifolia</i> Leaves. Advanced Materials Research, 0, 1132, 36-50.	0.3	5
57	Effect of particle size and sintering time on the mechanical properties of porous Tiâ€“6Alâ€“4V implant. SN Applied Sciences, 2020, 2, 1.	2.9	5
58	An Experimental Study of Fracture of LIGA Ni Micro-Electro-Mechanical Systems Thin Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 1223-1230.	2.2	4
59	Recycling of plastic waste materials: mechanical properties and implications for road construction. MRS Advances, 2020, 5, 1305-1312.	0.9	4
60	Mechanical Characterization of Earth-Based Composites Materials Reinforced with Treated Bamboo Fibres for Affordable Housing. MRS Advances, 2020, 5, 1313-1321.	0.9	4
61	Extended pulsated drug release from PLGA-based minirods. Journal of Materials Science: Materials in Medicine, 2017, 28, 61.	3.6	3
62	Development of a Low-cost Biomedical Device to Enhance Pneumonia Diagnosis in Children. MRS Advances, 2020, 5, 1367-1375.	0.9	1
63	Release kinetics of fungicidal antimicrobials into packaged foods. Journal of Food Safety, 2021, 41, e12904.	2.3	1
64	Cellâ€“surface interactions on goldâ€coated p olydimethylsiloxane nanocomposite structures: Localized laser heating on cell viability. Journal of Biomedical Materials Research - Part A, 2021, 109, 2611-2624.	4.0	1
65	Surface coating and wettability study of PDMS-based composites: Effect on contact angle and cell-surface interaction. MRS Advances, 2022, 7, 656-662.	0.9	1
66	Single Cell Deformation and Detachment Models of Shear Assay Measurements. Advanced Materials Research, 0, 1132, 51-71.	0.3	0
67	Laser Application of Nanocomposite Hydrogels on Cancer Cell Viability. MRS Advances, 2020, 5, 1377-1385.	0.9	0