

Josef Sepitka

List of Publications by Year in descending order

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32
papers

317
citations

1163117

8
h-index

888059

17
g-index

33
all docs

33
docs citations

33
times ranked

550
citing authors

#	ARTICLE	IF	CITATIONS
1	PDMS substrate stiffness affects the morphology and growth profiles of cancerous prostate and melanoma cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 41, 13-22.	3.1	62
2	Antibacterial, mechanical and surface properties of Ag-DLC films prepared by dual PLD for medical applications. <i>Materials Science and Engineering C</i> , 2017, 77, 955-962.	7.3	49
3	The microstructure and surface hardness of Ti6Al4V alloy implanted with nitrogen ions at an elevated temperature. <i>Journal of Alloys and Compounds</i> , 2015, 620, 48-54.	5.5	38
4	Physico-chemical properties of PDMS surfaces suitable as substrates for cell cultures. <i>Applied Surface Science</i> , 2016, 389, 247-254.	6.1	34
5	Hardness response to the stability of a Ti(+N) solid solution in an annealed TiN/Ti(+N)/Ti mixture layer formed by nitrogen ion implantation into titanium. <i>Journal of Alloys and Compounds</i> , 2018, 746, 490-495.	5.5	17
6	Different diameters of titanium dioxide nanotubes modulate Saos-2 osteoblast-like cell adhesion and osteogenic differentiation and nanomechanical properties of the surface. <i>RSC Advances</i> , 2019, 9, 11341-11355.	3.6	17
7	Influence of surface pre-treatment with mechanical polishing, chemical, electrochemical and ion sputter etching on the surface properties, corrosion resistance and MG-63 cell colonization of commercially pure titanium. <i>Materials Science and Engineering C</i> , 2020, 115, 111065.	7.3	14
8	The role of vascularization on changes in ligamentum flavum mechanical properties and development of hypertrophy in patients with lumbar spinal stenosis. <i>Spine Journal</i> , 2020, 20, 1125-1133.	1.3	12
9	Structural Characterization and Mechanical Properties of a Titanium Nitride-Based Nanolayer Prepared by Nitrogen Ion Implantation on a Titanium Alloy. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-7.	2.7	8
10	Mechanical properties of deep-sea molluscan shell. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 287-289.	1.6	7
11	The Effect of Nitrogen Ion Implantation on the Surface Properties of Ti6Al4V Alloy Coated by a Carbon Nanolayer. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8.	2.7	7
12	Elastic Properties of Human Osteon and Osteonal Lamella Computed by a Bidirectional Micromechanical Model and Validated by Nanoindentation. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 081002.	1.3	7
13	Nanoindentation studies and modeling of surface layers on austenitic stainless steels by extreme electrochemical treatments. <i>Surface and Interface Analysis</i> , 2015, 47, 643-647.	1.8	6
14	<i>In vitro</i> evaluation of a novel nanostructured Ti-36Nb-6Ta alloy for orthopedic applications. <i>Nanomedicine</i> , 2020, 15, 1843-1859.	3.3	6
15	Influence of diamond and graphite bonds on mechanical properties of DLC thin films. <i>Journal of Physics: Conference Series</i> , 2015, 594, 012008.	0.4	5
16	Calcium-doped titanium thin films prepared with the assistance of an oxygen ion beam: The effect of Ca content on microstructure, mechanical properties and adhesion. <i>Applied Surface Science</i> , 2022, 573, 151569.	6.1	5
17	Nanoindentation mapping reveals gradients in the mechanical properties of dental enamel in rat incisors. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 290-291.	1.6	4
18	Studying the influence of nanodiamonds over the elasticity of polymer/nanodiamond composites for biomedical application. <i>Journal of Physics: Conference Series</i> , 2014, 558, 012060.	0.4	3

#	ARTICLE	IF	CITATIONS
19	Arbitrarily-shaped microgels composed of chemically unmodified biopolymers. <i>Biomaterials Science</i> , 2020, 8, 3044-3051.	5.4	3
20	Pulsed Plasma Surfacing of Titanium Matrix Cermet Based on B4C. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 1975-1984.	3.1	3
21	Crystallographic texture determines mechanical properties of molluscan nacre. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 292-293.	1.6	2
22	Compression tests of a living cell: a contact detection problem. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 40-41.	1.6	2
23	Micromechanical Properties of Biocompatible Materials for Bone Tissue Engineering Produced by Direct 3D Printing. <i>Key Engineering Materials</i> , 2015, 662, 138-141.	0.4	2
24	Nanoscale mechanical analysis of dental filling composite and its finite element modelling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 261-262.	1.6	1
25	Effect of Sterilization Processes on the Fiber/Matrix Interphase Properties of CF/PDMS Composite to be Used in Orthopaedics. <i>Key Engineering Materials</i> , 0, 586, 234-236.	0.4	1
26	Mechanical and Tribological Properties of Carbon Thin Film with Tungsten Interlayer Prepared by Ion Beam Assisted Deposition. <i>Journal of Materials</i> , 2013, 2013, 1-4.	0.1	1
27	Increased elastic modulus of plasma polymer coatings reinforced with detonation nanodiamond particles improves osteogenic differentiation of mesenchymal stem cells. <i>Turkish Journal of Biology</i> , 2018, 42, 195-203.	0.8	1
28	Dynamic nanoindentation of porcine spinal zygapophyseal joint cartilage. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 265-266.	1.6	0
29	Characterization of the Interphase in Carbon Fiber Reinforced Polymeric Composite by a Modulus Mapping Test. <i>Key Engineering Materials</i> , 2013, 586, 253-256.	0.4	0
30	Mathematical model of human osteon and its validation by nanomechanical testing of bone lamella. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 24-25.	1.6	0
31	Creep damage index as a sensitive indicator of damage accumulation in thermoplastic laminates. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 147-154.	3.1	0
32	Pulsed-PTA Preparation of B4C-Based Titanium Matrix Cermet. , 2021, , .		0