

Morten Foss

List of Publications by Year in descending order

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38
papers

2,911
citations

218677

26
h-index

315739

38
g-index

38
all docs

38
docs citations

38
times ranked

4415
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of nanoscale surface topography on protein adsorption and cellular response. Nano Today, 2010, 5, 66-78.	11.9	514
2	Enhancement of Protein Adsorption Induced by Surface Roughness. Langmuir, 2006, 22, 10885-10888.	3.5	503
3	Fibronectin Adsorption, Cell Adhesion, and Proliferation on Nanostructured Tantalum Surfaces. ACS Nano, 2010, 4, 2874-2882.	14.6	163
4	Guidance of stem cell fate on 2D patterned surfaces. Biomaterials, 2012, 33, 6626-6633.	11.4	154
5	Bovine serum albumin adsorption on nano-rough platinum surfaces studied by QCM-D. Colloids and Surfaces B: Biointerfaces, 2008, 66, 53-59.	5.0	140
6	The use of combinatorial topographical libraries for the screening of enhanced osteogenic expression and mineralization. Biomaterials, 2009, 30, 2015-2022.	11.4	117
7	Adsorption of fibrinogen on tantalum oxide, titanium oxide and gold studied by the QCM-D technique. Colloids and Surfaces B: Biointerfaces, 2005, 43, 208-215.	5.0	107
8	Fibronectin Adsorption on Tantalum: The Influence of Nanoroughness. Journal of Physical Chemistry B, 2008, 112, 8241-8249.	2.6	102
9	Monitoring cell adhesion on tantalum and oxidised polystyrene using a quartz crystal microbalance with dissipation. Biomaterials, 2006, 27, 4529-4537.	11.4	101
10	QCM-D studies of attachment and differential spreading of pre-osteoblastic cells on Ta and Cr surfaces. Biomaterials, 2006, 27, 1346-1354.	11.4	97
11	Enhanced Surface Activation of Fibronectin upon Adsorption on Hydroxyapatite. Langmuir, 2009, 25, 2971-2978.	3.5	74
12	Fibronectin adsorption on gold, Ti-, and Ta-oxide investigated by QCM-D and RSA modelling. Journal of Colloid and Interface Science, 2008, 320, 110-116.	9.4	73
13	A combinatorial screening of human fibroblast responses on micro-structured surfaces. Biomaterials, 2010, 31, 9182-9191.	11.4	70
14	Nanoscale topography reduces fibroblast growth, focal adhesion size and migration-related gene expression on platinum surfaces. Colloids and Surfaces B: Biointerfaces, 2011, 85, 189-197.	5.0	60
15	Extracellular matrix remodelling during cell adhesion monitored by the quartz crystal microbalance. Biomaterials, 2008, 29, 2581-2587.	11.4	59
16	Sulfur induced Cu ₄ tetramers on Cu(111). Surface Science, 1997, 388, 5-14.	1.9	54
17	Control of proliferation and osteogenic differentiation of human dental-pulp-derived stem cells by distinct surface structures. Acta Biomaterialia, 2014, 10, 641-650.	8.3	51
18	Osteopontin functionalization of hydroxyapatite nanoparticles in a PDLLA matrix promotes bone formation. Journal of Biomedical Materials Research - Part A, 2011, 99A, 94-101.	4.0	44

#	ARTICLE	IF	CITATIONS
19	Responses of fibroblasts and glial cells to nanostructured platinum surfaces. <i>Nanotechnology</i> , 2009, 20, 385103.	2.6	42
20	Sulfur chemisorption on Ni(111): The clock structure of the (5 \times 3 $\sqrt{3}$ -2)S phase. <i>Physical Review B</i> , 1994, 50, 8950-8953.	3.2	41
21	Cell shape and spreading of stromal (mesenchymal) stem cells cultured on fibronectin coated gold and hydroxyapatite surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 18-25.	5.0	41
22	Interaction of human mesenchymal stem cells with osteopontin coated hydroxyapatite surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 186-193.	5.0	38
23	Influence of Nanoroughness and Detailed Surface Morphology on Structural Properties and Water-Coupling Capabilities of Surface-Bound Fibrinogen Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4406-4412.	3.1	37
24	Hydroxyapatite nanoparticles in poly(ϵ -D,L-lactide) coatings on porous titanium implants conducts bone formation. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 665-672.	4.0	36
25	Influence of surface roughness on quartz crystal microbalance measurements in liquids. <i>Journal of Applied Physics</i> , 2007, 101, 114502.	2.5	35
26	Growth characteristics of inclined columns produced by Glancing Angle Deposition (GLAD) and colloidal lithography. <i>Applied Surface Science</i> , 2011, 257, 2226-2230.	6.1	26
27	Deuterium-induced restructuring of Cu(100). <i>Chemical Physics Letters</i> , 1993, 215, 535-540.	2.6	20
28	X-ray diffraction investigation of the sulphur induced 4 \times 1 reconstruction of Ni(110). <i>Surface Science</i> , 1993, 296, 283-290.	1.9	19
29	Nanostructure of the neurocentral growth plate: Insight from scanning small angle X-ray scattering, atomic force microscopy and scanning electron microscopy. <i>Bone</i> , 2006, 39, 530-541.	2.9	19
30	Synthesis of Functional Nanomaterials via Colloidal Mask Templating and Glancing Angle Deposition (GLAD). <i>Advanced Engineering Materials</i> , 2010, 12, 899-905.	3.5	18
31	Post-treatments of polydopamine coatings influence cellular response. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 207, 111972.	5.0	15
32	Interfacial Fibrin Polymerization and Fibrillation Kinetics Is Influenced by Nanoscale Roughness and Fibrinogen-Fibrin Cleavage in Solution. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13617-13623.	3.1	10
33	Synthesis of Nano- and Micro-Scale Topographies by Combining Colloidal Lithography and Glancing Angle Deposition (GLAD). <i>Advanced Engineering Materials</i> , 2015, 17, 8-13.	3.5	8
34	Investigation of particle-functionalized tissue engineering scaffolds using X-ray tomographic microscopy. <i>Biotechnology and Bioengineering</i> , 2008, 100, 820-829.	3.3	6
35	Free radicals generated by tantalum implants antagonize the cytotoxic effect of doxorubicin. <i>International Journal of Pharmaceutics</i> , 2013, 448, 214-220.	5.2	6
36	The adsorption characteristics of osteopontin on hydroxyapatite and gold. <i>Materials Science and Engineering C</i> , 2011, 31, 514-522.	7.3	4

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37	Whole-Genome Expression Analysis of Human Mesenchymal Stromal Cells Exposed to UltrasMOOTH Tantalum vs. Titanium Oxide Surfaces. Cellular and Molecular Bioengineering, 2013, 6, 199-209.	2.1	4
38	A Combinatorial Library of Micro-Topographies and Chemical Compositions for Tailored Surface Wettability. Advanced Engineering Materials, 2011, 13, 516-524.	3.5	3