

# Karine Anselme

## List of Publications by Year in descending order

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71  
papers

2,497  
citations

236925

25  
h-index

206112

48  
g-index

74  
all docs

74  
docs citations

74  
times ranked

4084  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell/Material Interfaces: Influence of Surface Chemistry and Surface Topography on Cell Adhesion. Journal of Adhesion Science and Technology, 2010, 24, 831-852.	2.6	226
2	Curvotaxis directs cell migration through cell-scale curvature landscapes. Nature Communications, 2018, 9, 3995.	12.8	190
3	Tunable Antibacterial Coatings That Support Mammalian Cell Growth. Nano Letters, 2010, 10, 202-207.	9.1	150
4	The effects of femtosecond laser-textured Ti-6Al-4V on wettability and cell response. Materials Science and Engineering C, 2016, 69, 311-320.	7.3	125
5	Bacteria/Material Interfaces: Role of the Material and Cell Wall Properties. Journal of Adhesion Science and Technology, 2010, 24, 2165-2201.	2.6	112
6	Influence of hydroxyapatite microstructure on human bone cell response. Journal of Biomedical Materials Research - Part A, 2006, 78A, 222-235.	4.0	105
7	Microstructured Surfaces Cause Severe but Non-Detrimental Deformation of the Cell Nucleus. Advanced Materials, 2009, 21, 3586-3590.	21.0	105
8	Directing nuclear deformation on micropillared surfaces by substrate geometry and cytoskeleton organization. Biomaterials, 2013, 34, 2991-3001.	11.4	98
9	Quantitative kinetic analysis of gene expression during human osteoblastic adhesion on orthopaedic materials. Biomaterials, 2006, 27, 2829-2844.	11.4	83
10	Modelling approach in cell/material interactions studies. Biomaterials, 2006, 27, 1187-1199.	11.4	77
11	Tuning InAs Nanowire Density for HEK293 Cell Viability, Adhesion, and Morphology: Perspectives for Nanowire-Based Biosensors. ACS Applied Materials & Interfaces, 2013, 5, 10510-10519.	8.0	77
12	In Vitro Control of Human Bone Marrow Stromal Cells for Bone Tissue Engineering. Tissue Engineering, 2002, 8, 941-953.	4.6	70
13	Preparation, characterization and biological test of 3D-scaffolds based on chitosan, fibroin and hydroxyapatite for bone tissue engineering. Materials Science and Engineering C, 2013, 33, 3389-3395.	7.3	66
14	Synthesis of magnesium- and manganese-doped hydroxyapatite structures assisted by the simultaneous incorporation of strontium. Materials Science and Engineering C, 2016, 61, 736-743.	7.3	59
15	Surface composition XPS analysis of a plasma treated polystyrene: Evolution over long storage periods. Colloids and Surfaces B: Biointerfaces, 2016, 145, 1-7.	5.0	52
16	Role of the Nucleus as a Sensor of Cell Environment Topography. Advanced Healthcare Materials, 2018, 7, e1701154.	7.6	51
17	Relationship between bioceramics sintering and micro-particles-induced cellular damages. Journal of Materials Science: Materials in Medicine, 2004, 15, 361-365.	3.6	47
18	Topographically induced self-deformation of the nuclei of cells: dependence on cell type and proposed mechanisms. Journal of Materials Science: Materials in Medicine, 2010, 21, 939-946.	3.6	47

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19	Synergistic effects of BMP-2, BMP-6 or BMP-7 with human plasma fibronectin onto hydroxyapatite coatings: A comparative study. <i>Acta Biomaterialia</i> , 2017, 55, 481-492.	8.3	39
20	Dynamic adaptation of mesenchymal stem cell physiology upon exposure to surface micropatterns. <i>Scientific Reports</i> , 2019, 9, 9099.	3.3	36
21	Abrogated Cell Contact Guidance on Amino-Functionalized Microgrooves. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10461-10471.	8.0	33
22	Effect of a gold-palladium coating on the long-term adhesion of human osteoblasts on biocompatible metallic materials. <i>Surface and Coatings Technology</i> , 2006, 200, 6325-6330.	4.8	30
23	The Influence of Surface Chemistry and Pore Size on the Adsorption of Proteins on Nanostructured Carbon Materials. <i>Advanced Functional Materials</i> , 2010, 20, 2489-2499.	14.9	30
24	Necessity of a Thorough Characterization of Functionalized Silicon Wafers before Biointerface Studies. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11102-11111.	3.1	30
25	Inhibition of Calcification In Vivo by Acyl Azide Cross-Linking of a Collagen-Glycosaminoglycan Sponge. <i>Matrix Biology</i> , 1992, 12, 264-273.	1.7	29
26	Antibacterial Properties of Silver-Loaded Plasma Polymer Coatings. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-9.	2.7	26
27	Roughness statistical influence on cell adhesion using profilometry and multiscale analysis. <i>Scanning</i> , 2014, 36, 2-10.	1.5	26
28	Actomyosin, vimentin and LINC complex pull on osteosarcoma nuclei to deform on micropillar topography. <i>Biomaterials</i> , 2020, 234, 119746.	11.4	25
29	Biomimetic Cryptic Site Surfaces for Reversible Chemo- and Cyto-Mechanoresponsive Substrates. <i>ACS Nano</i> , 2013, 7, 3457-3465.	14.6	24
30	Size-Dependent Internalization Efficiency of Macrophages from Adsorbed Nanoparticle-Based Monolayers. <i>Nanomaterials</i> , 2021, 11, 1963.	4.1	24
31	Oligonucleotide Nanostructured Surfaces: Effect on <i>Escherichia coli</i> Curli Expression. <i>Macromolecular Bioscience</i> , 2008, 8, 1161-1172.	4.1	23
32	In Vitro Degradation of Electrospun Poly(Lactic-Co-Glycolic Acid) (PLGA) for Oral Mucosa Regeneration. <i>Polymers</i> , 2020, 12, 1853.	4.5	23
33	A Biophysical Model for Curvature-Guided Cell Migration. <i>Biophysical Journal</i> , 2019, 117, 1136-1144.	0.5	22
34	Inorganic-Organic Thin Implant Coatings Deposited by Lasers. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 911-920.	8.0	21
35	Study of serum factors potentially involved in the pathogenesis of heterotopic bone formation after severe brain injury. <i>Joint Bone Spine</i> , 2005, 72, 146-149.	1.6	20
36	Topographical curvature is sufficient to control epithelium elongation. <i>Scientific Reports</i> , 2020, 10, 14784.	3.3	20

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37	Physical-chemical and biological behavior of an amorphous calcium phosphate thin film produced by RF-magnetron sputtering. <i>Materials Science and Engineering C</i> , 2012, 32, 2086-2095.	7.3	18
38	Mesoporous hydroxyapatite by hard templating of silica and carbon foams for protein release. <i>Journal of Materials Science</i> , 2013, 48, 3722-3730.	3.7	17
39	Effect of geometrical constraints on human pluripotent stem cell nuclei in pluripotency and differentiation. <i>Integrative Biology (United Kingdom)</i> , 2018, 10, 278-289.	1.3	17
40	Self-Assembled Molecular Platforms for Bacteria/Material Biointerface Studies: Importance to Control Functional Group Accessibility. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 10478-10488.	8.0	16
41	Strontium ranelate improves the interaction of osteoblastic cells with titanium substrates: Increase in cell proliferation, differentiation and matrix mineralization. <i>Biomatter</i> , 2015, 5, e1027847.	2.6	16
42	Protein/Material Interfaces: Investigation on Model Surfaces. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 2141-2164.	2.6	14
43	Molecular Mechanisms of Topography Sensing by Osteoblasts: An Update. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1791.	2.5	14
44	Different surface sensing of the cell body and nucleus in healthy primary cells and in a cancerous cell line on nanogrooves. <i>Biointerphases</i> , 2015, 10, 031004.	1.6	12
45	<i>In vitro</i> and <i>in vivo</i> evaluation of the inflammatory potential of various nanoporous hydroxyapatite biomaterials. <i>Nanomedicine</i> , 2015, 10, 785-802.	3.3	12
46	Removal of surface by-products from sintered hydroxyapatite: Effect of a chelation treatment on fibronectin adsorption and cell adhesion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 76B, 136-142.	3.4	11
47	Nucleus deformation of SaOs-2 cells on rhombic $\mu$ -pillars. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 108.	3.6	11
48	The role of the counter-ions present in syntheses on the thermal stabilization of strontium and/or calcium apatites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 199, 77-86.	3.5	11
49	In Vitro Biological Evaluation of 3-D Hydroxyapatite/Collagen (50/50 wt. (%)) Scaffolds. <i>Materials Research</i> , 2012, 15, 151-158.	1.3	10
50	Vesicular Structures Self-Assembled from Oligonucleotide-Polymer Hybrids: Mechanical Prevention of Bacterial Colonization Upon their Surface Tethering Through Hybridization. <i>Advanced Functional Materials</i> , 2012, 22, 4891-4898.	14.9	10
51	New colloidal fabrication of bioceramics with controlled porosity for delivery of antibiotics. <i>Journal of Materials Science</i> , 2016, 51, 8861-8879.	3.7	10
52	Role of culture conditions on in vitro transformation and cellular colonization of biomimetic HA-Col scaffolds. <i>Biomatter</i> , 2013, 3, e24922.	2.6	9
53	High-performance liquid chromatography as a technique to determine protein adsorption onto hydrophilic/hydrophobic surfaces. <i>International Journal of Pharmaceutics</i> , 2016, 497, 54-61.	5.2	8
54	The influence of culture conditions on extracellular matrix proteins synthesized by osteoblasts derived from rabbit bone marrow. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 63, 400-407.	3.1	7

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55	A multi-topographical-instrument analysis: the breast implant texture measurement. <i>Surface Topography: Metrology and Properties</i> , 2017, 5, 025004.	1.6	7
56	Physicochemical regulation of TGF and VEGF delivery from mesoporous calcium phosphate bone substitutes. <i>Nanomedicine</i> , 2017, 12, 1835-1850.	3.3	7
57	Influence of multiscale and curved structures on the migration of stem cells. <i>Biointerphases</i> , 2018, 13, 06D408.	1.6	7
58	Platforms for controlled release of antibacterial agents facilitated by plasma polymerization. , 2010, 2010, 811-4.		6
59	Effects of Fibronectin Coating on Bacterial and Osteoblast Progenitor Cells Adherence in a Co-culture Assay. <i>Advances in Experimental Medicine and Biology</i> , 2016, 973, 17-30.	1.6	5
60	Surface Texturization of Breast Implants Impacts Extracellular Matrix and Inflammatory Gene Expression in Asymptomatic Capsules. <i>Plastic and Reconstructive Surgery</i> , 2020, 145, 542e-551e.	1.4	4
61	New Phenotype and Mineralization of Biogenic Iron Oxide in Magnetotactic Bacteria. <i>Nanomaterials</i> , 2021, 11, 3189.	4.1	4
62	Elaboration of a Well-Ordered Porous Bioceramic via a Heterocoagulation Colloidal Process. <i>Key Engineering Materials</i> , 0, 396-398, 515-518.	0.4	3
63	Hydrothermal Synthesis and Characterization of Bio-Sourced Macroporous Zinc Phosphates Prepared with Casein Protein. <i>Crystal Growth and Design</i> , 2016, 16, 4897-4904.	3.0	3
64	Biocompatibility of the electrical discharge machining process on titanium surfaces. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2012, 5, 419.	0.1	1
65	Complex Cell Physiology on Topographically and Chemically Designed Material Surfaces. <i>Materials Science Forum</i> , 2016, 879, 78-83.	0.3	1
66	Bio-sourced phosphoprotein-based synthesis of silver-doped macroporous zinc phosphates and their antibacterial properties. <i>RSC Advances</i> , 2018, 8, 25112-25122.	3.6	1
67	Real-Time Imaging of Bacteria/Osteoblast Dynamic Coculture on Bone Implant Material in an in Vitro Postoperative Contamination Model. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3260-3269.	5.2	1
68	Topography characterization of sinusoidal surfaces obtained with electrochemical machining. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 025002.	1.6	1
69	Hard Template Synthesis of Mesoporous Hydroxyapatite Materials for Controlled Protein Release. <i>Ceramic Transactions</i> , 0, , 37-42.	0.1	1
70	Biological Behavior of Chitosan-Fibroin-Hydroxyapatite Scaffolds with STRO+1A, MC3T3-E1 and SaOS2 Cells. <i>Key Engineering Materials</i> , 2011, 493-494, 304-309.	0.4	0
71	Designing Optimal Scaffold Topographies to Promote Nucleus-Guided Mechanosensitive Cell Migration Using in Silico Models. <i>Advanced Structured Materials</i> , 2020, , 199-216.	0.5	0