

# Klaus D Jandt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6002401/publications.pdf>

Version: 2024-02-01

225  
papers

10,167  
citations

36203

51  
h-index

42291

92  
g-index

229  
all docs

229  
docs citations

229  
times ranked

10900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of Polymer Melt Intercalation. <i>Macromolecules</i> , 1995, 28, 8080-8085.	2.2	636
2	Microstructural Evolution of Melt Intercalated Polymer~Organically Modified Layered Silicates Nanocomposites. <i>Chemistry of Materials</i> , 1996, 8, 2628-2635.	3.2	507
3	Does the nanometre scale topography of titanium influence protein adsorption and cell proliferation?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 49, 136-144.	2.5	313
4	The reinforcement of dentures. <i>Journal of Oral Rehabilitation</i> , 1999, 26, 185-194.	1.3	245
5	Polysaccharide-protein surface modification of titanium via a layer-by-layer technique: Characterization and cell behaviour aspects. <i>Biomaterials</i> , 2005, 26, 5960-5971.	5.7	234
6	Depth of cure and compressive strength of dental composites cured with blue light emitting diodes (LEDs). <i>Dental Materials</i> , 2000, 16, 41-47.	1.6	231
7	Surface functionalized titanium thin films: Zeta-potential, protein adsorption and cell proliferation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 50, 1-8.	2.5	230
8	A brief history of LED photopolymerization. <i>Dental Materials</i> , 2013, 29, 605-617.	1.6	207
9	Light-emitting diode (LED) polymerisation of dental composites: flexural properties and polymerisation potential. <i>Biomaterials</i> , 2000, 21, 1379-1385.	5.7	195
10	Future perspectives of resin-based dental materials. <i>Dental Materials</i> , 2009, 25, 1001-1006.	1.6	193
11	Temperature-sensitive PVA/PNIPAAm semi-IPN hydrogels with enhanced responsive properties. <i>Acta Biomaterialia</i> , 2009, 5, 488-497.	4.1	192
12	Atomic force microscopy of biomaterials surfaces and interfaces. <i>Surface Science</i> , 2001, 491, 303-332.	0.8	186
13	Human Plasma Fibrinogen Adsorption on Ultraflat Titanium Oxide Surfaces Studied with Atomic Force Microscopy. <i>Langmuir</i> , 2000, 16, 8167-8175.	1.6	169
14	Mineralisation of chitosan scaffolds with nano-apatite formation by double diffusion technique. <i>Acta Biomaterialia</i> , 2006, 2, 75-84.	4.1	165
15	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , 2019, 14, 629-635.	15.6	149
16	Protein-mimetic peptide nanofibers: Motif design, self-assembly synthesis, and sequence-specific biomedical applications. <i>Progress in Polymer Science</i> , 2018, 80, 94-124.	11.8	145
17	Surface structure and composition of flat titanium thin films as a function of film thickness and evaporation rate. <i>Applied Surface Science</i> , 2005, 250, 252-267.	3.1	143
18	In vitro demineralization/remineralization cycles at human tooth enamel surfaces investigated by AFM and nanoindentation. <i>Journal of Colloid and Interface Science</i> , 2004, 280, 442-448.	5.0	125

#	ARTICLE	IF	CITATIONS
19	Chitosan as a support for heterogeneous Pd catalysts in liquid phase catalysis. <i>Applied Catalysis A: General</i> , 2010, 379, 30-37.	2.2	118
20	Polymerization and light-induced heat of dental composites cured with LED and halogen technology. <i>Biomaterials</i> , 2003, 24, 1809-1820.	5.7	117
21	Human enamel dissolution in citric acid as a function of pH in the range $2.30 \leq \text{pH} \leq 6.30$ - a nanoindentation study. <i>European Journal of Oral Sciences</i> , 2003, 111, 258-262.	0.7	111
22	Release of metronidazole from electrospun poly(L-lactide-co-D/L-lactide) fibers for local periodontitis treatment. <i>Dental Materials</i> , 2012, 28, 179-188.	1.6	109
23	Photoinitiator dependent composite depth of cure and Knoop hardness with halogen and LED light curing units. <i>Biomaterials</i> , 2003, 24, 1787-1795.	5.7	106
24	Nanotechnology in dentistry: Present and future perspectives on dental nanomaterials. <i>Dental Materials</i> , 2020, 36, 1365-1378.	1.6	103
25	Layer-by-Layer Assembly of Estradiol Loaded Mesoporous Silica Nanoparticles on Titanium Substrates and Its Implication for Bone Homeostasis. <i>Advanced Materials</i> , 2010, 22, 4146-4150.	11.1	102
26	High power light emitting diode (LED) arrays versus halogen light polymerization of oral biomaterials: Barcol hardness, compressive strength and radiometric properties. <i>Biomaterials</i> , 2002, 23, 2955-2963.	5.7	92
27	Reduction of ferrihydrite with adsorbed and coprecipitated organic matter: microbial reduction by <i>Geobacter bremensis</i> vs. abiotic reduction by Na-dithionite. <i>Biogeosciences</i> , 2014, 11, 4953-4966.	1.3	92
28	Ultrasonication as a Method to Study Enamel Demineralisation during Acid Erosion. <i>Caries Research</i> , 2000, 34, 289-294.	0.9	82
29	Surface mediated in situ differentiation of mesenchymal stem cells on gene-functionalized titanium films fabricated by layer-by-layer technique. <i>Biomaterials</i> , 2009, 30, 3626-3635.	5.7	81
30	Controlling Protein Adsorption through Nanostructured Polymeric Surfaces. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700995.	3.9	81
31	Visualisation of human plasma fibrinogen adsorbed on titanium implant surfaces with different roughness. <i>Surface Science</i> , 2001, 491, 405-420.	0.8	80
32	Second generation LEDs for the polymerization of oral biomaterials. <i>Dental Materials</i> , 2004, 20, 80-87.	1.6	79
33	Gentamicin coating of plasma chemical oxidized titanium alloy prevents implant-related osteomyelitis in rats. <i>Biomaterials</i> , 2016, 101, 156-164.	5.7	79
34	Evolutions, Revolutions and Trends in Biomaterials Science – A Perspective. <i>Advanced Engineering Materials</i> , 2007, 9, 1035-1050.	1.6	76
35	Human enamel erosion in constant composition citric acid solutions as a function of degree of saturation with respect to hydroxyapatite. <i>Journal of Oral Rehabilitation</i> , 2005, 32, 16-21.	1.3	71
36	The Early Stages of Native Enamel Dissolution Studied with Atomic Force Microscopy. <i>Journal of Colloid and Interface Science</i> , 2000, 232, 156-164.	5.0	70

#	ARTICLE	IF	CITATIONS
37	Novel Biopolymeric Template for the Nucleation and Growth of Hydroxyapatite Crystals Based on Self-Assembled Fibrinogen Fibrils. <i>Biomacromolecules</i> , 2008, 9, 3258-3267.	2.6	70
38	Responsive Hybrid Polymeric/Metallic Nanoparticles for Catalytic Applications. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 1049-1057.	1.7	70
39	Susceptibility of deciduous and permanent enamel to dietary acid-induced erosion studied with atomic force microscopy nanoindentation. <i>European Journal of Oral Sciences</i> , 2004, 112, 61-66.	0.7	69
40	Mechanical properties of in situ demineralised human enamel measured by AFM nanoindentation. <i>Surface Science</i> , 2001, 491, 456-467.	0.8	64
41	Quantification of dental erosion – A comparison of stylus profilometry and confocal laser scanning microscopy (CLSM). <i>Dental Materials</i> , 2010, 26, 326-336.	1.6	63
42	Nanorough titanium surfaces reduce adhesion of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> via nano adhesion points. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 617-625.	2.5	63
43	Enamel dissolution in citric acid as a function of calcium and phosphate concentrations and degree of saturation with respect to hydroxyapatite. <i>European Journal of Oral Sciences</i> , 2003, 111, 428-433.	0.7	62
44	Optical power outputs, spectra and dental composite depths of cure, obtained with blue light emitting diode (LED) and halogen light curing units (LCUs). <i>British Dental Journal</i> , 2002, 193, 459-463.	0.3	60
45	MBEC Versus MBIC: the Lack of Differentiation between Biofilm Reducing and Inhibitory Effects as a Current Problem in Biofilm Methodology. <i>Biological Procedures Online</i> , 2019, 21, 18.	1.4	60
46	Biomimetic growth of hydroxyapatite on super water-soluble carbon nanotube-protein hybrid nanofibers. <i>Carbon</i> , 2011, 49, 2216-2226.	5.4	59
47	Enamel dissolution as a function of solution degree of saturation with respect to hydroxyapatite: a nanoindentation study. <i>Journal of Colloid and Interface Science</i> , 2003, 265, 9-14.	5.0	58
48	Knoop hardness depth profiles and compressive strength of selected dental composites polymerized with halogen and LED light curing technologies. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 63, 729-738.	3.0	57
49	Protein-Promoted Synthesis of Pt Nanoparticles on Carbon Nanotubes for Electrocatalytic Nanohybrids with Enhanced Glucose Sensing. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11453-11460.	1.5	57
50	Developments and perspectives of scanning probe microscopy (SPM) on organic materials systems. <i>Materials Science and Engineering Reports</i> , 1998, 21, 221-295.	14.8	56
51	Further Modification to Soft Drinks to Minimise Erosion. <i>Caries Research</i> , 2002, 36, 70-74.	0.9	55
52	Time dependence of composite shrinkage using halogen and LED light curing. <i>Dental Materials</i> , 2005, 21, 278-286.	1.6	55
53	Surfaces engineering of polymeric films for biomedical applications. <i>Materials Science and Engineering C</i> , 2003, 23, 353-358.	3.8	52
54	Surface engineering of titanium thin films with silk fibroin via layer-by-layer technique and its effects on osteoblast growth behavior. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 82A, 927-935.	2.1	52

#	ARTICLE	IF	CITATIONS
55	Pectin, alginate and gum arabic polymers reduce citric acid erosion effects on human enamel. <i>Dental Materials</i> , 2010, 26, 831-839.	1.6	52
56	Multiparametric optimization of polymer solar cells: A route to reproducible high efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 508-513.	3.0	49
57	Dental composite depth of cure with halogen and blue light emitting diode technology. <i>British Dental Journal</i> , 1999, 186, 388-391.	0.3	48
58	A novel two-level microstructured poly(N-isopropylacrylamide) hydrogel for controlled release. <i>Acta Biomaterialia</i> , 2010, 6, 3890-3898.	4.1	48
59	Toothbrush Abrasion of Surface Softened Enamel Studied with Tapping Mode AFM and AFM Nanoindentation. <i>Caries Research</i> , 2004, 38, 464-472.	0.9	47
60	In situ remineralisation of surface softened human enamel studied with AFM nanoindentation. <i>Surface Science</i> , 2004, 553, 105-114.	0.8	47
61	Surface modification of titanium thin film with chitosan via electrostatic self-assembly technique and its influence on osteoblast growth behavior. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 499-506.	1.7	47
62	Growth of osteoblast-like cells on biomimetic apatite-coated chitosan scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 84B, 7-16.	1.6	47
63	Micro-structured smart hydrogels with enhanced protein loading and release efficiency. <i>Acta Biomaterialia</i> , 2010, 6, 1297-1306.	4.1	47
64	Controlled assembly of protein-protected gold nanoparticles on noncovalent functionalized carbon nanotubes. <i>Carbon</i> , 2010, 48, 645-653.	5.4	47
65	Enhanced mechanical properties of a novel, injectable, fiber-reinforced brushite cement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 328-338.	1.5	47
66	Strengthening Polymer Interfaces with Triblock Copolymers. <i>Macromolecules</i> , 1997, 30, 549-560.	2.2	46
67	A Novel Approach to Prepare Porous Poly(N-isopropylacrylamide) Hydrogel with Superfast Shrinking Kinetics. <i>Macromolecular Rapid Communications</i> , 2008, 29, 593-597.	2.0	46
68	The effect of plasma chemical oxidation of titanium alloy on bone-implant contact in rats. <i>Biomaterials</i> , 2011, 32, 8041-8047.	5.7	45
69	The effect of polyelectrolyte multilayer coated titanium alloy surfaces on implant anchorage in rats. <i>Acta Biomaterialia</i> , 2013, 9, 4926-4934.	4.1	45
70	Influence of different light curing units on the cytotoxicity of various dental composites. <i>Dental Materials</i> , 2007, 23, 1342-1348.	1.6	43
71	Antibacterial effect of different root canal sealers on three bacterial species. <i>Dental Materials</i> , 2013, 29, 542-549.	1.6	43
72	In Situ Formation of Nanohybrid Shish-Kebabs during Electrospinning for the Creation of Hierarchical Shish-Kebab Structures. <i>Macromolecules</i> , 2016, 49, 3550-3558.	2.2	43

#	ARTICLE	IF	CITATIONS
73	A Practical Approach for Ambient-Pressure Hydrogenations Using Pd on Porous Glass. <i>ChemSusChem</i> , 2009, 2, 77-82.	3.6	42
74	Transient Surface Roughening of Thin Films of Phase Separating Polymer Mixtures. <i>Langmuir</i> , 1996, 12, 3716-3720.	1.6	41
75	The influence of storage and indenter load on the Knoop hardness of dental composites polymerized with LED and halogen technologies. <i>Dental Materials</i> , 2004, 20, 21-28.	1.6	41
76	Inkjet printing of laminin gradient to investigate endothelial cellular alignment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 72, 230-235.	2.5	41
77	Biomimetic 3D hydroxyapatite architectures with interconnected pores based on electrospun biaxially orientated PCL nanofibers. <i>RSC Advances</i> , 2014, 4, 14833-14839.	1.7	41
78	Resin-composite cytotoxicity varies with shade and irradiance. <i>Dental Materials</i> , 2012, 28, 312-319.	1.6	40
79	Physical vapor deposited titanium thin films for biomedical applications: Reproducibility of nanoscale surface roughness and microbial adhesion properties. <i>Applied Surface Science</i> , 2013, 280, 578-589.	3.1	40
80	Surface fine structure of treated dentine investigated with tapping mode atomic force microscopy (TMAFM). <i>Journal of Dentistry</i> , 1999, 27, 137-144.	1.7	39
81	Image Analysis of Endothelial Microstructure and Endothelial Cell Dimensions of Human Arteries – A Preliminary Study. <i>Advanced Engineering Materials</i> , 2011, 13, B54.	1.6	39
82	Probing the future in functional soft drinks on the nanometre scale – towards tooth friendly soft drinks. <i>Trends in Food Science and Technology</i> , 2006, 17, 263-271.	7.8	38
83	All-Solid-State Cable-Type Supercapacitors with Ultrahigh Rate Capability. <i>Advanced Materials Technologies</i> , 2016, 1, 1600012.	3.0	38
84	How the Surface Nanostructure of Polyethylene Affects Protein Assembly and Orientation. <i>ACS Nano</i> , 2011, 5, 3120-3131.	7.3	37
85	Shish-kebab crystals in polyethylene investigated by scanning force microscopy. <i>Polymer</i> , 1994, 35, 2458-2462.	1.8	36
86	Mechanical properties and radiopacity of experimental glass-silica-metal hybrid composites. <i>Dental Materials</i> , 2002, 18, 429-435.	1.6	36
87	Reproducible Biofilm Cultivation of Chemostat-Grown Escherichia coli and Investigation of Bacterial Adhesion on Biomaterials Using a Non-Constant-Depth Film Fermenter. <i>PLoS ONE</i> , 2014, 9, e84837.	1.1	36
88	Ductile-to-Semiductile Transition in PP-MWNT Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2007, 28, 834-841.	2.0	35
89	Controlled self-assembly and templated metallization of fibrinogen nanofibrils. <i>Chemical Communications</i> , 2008, , 3903.	2.2	35
90	The influence of various light curing units on the cytotoxicity of dental adhesives. <i>Dental Materials</i> , 2009, 25, 1446-1452.	1.6	34

#	ARTICLE	IF	CITATIONS
91	Study of energy transfer by different light curing units into a class III restoration as a function of tilt angle and distance, using a MARC Patient Simulator (PS). <i>Dental Materials</i> , 2016, 32, 676-686.	1.6	34
92	Protein Handshake on the Nanoscale: How Albumin and Hemoglobin Self-Assemble into Nanohybrid Fibers. <i>ACS Nano</i> , 2018, 12, 1211-1219.	7.3	34
93	Characterization of Ultraflat Titanium Oxide Surfaces. <i>Chemistry of Materials</i> , 2002, 14, 777-789.	3.2	33
94	Scanning force microscopy of melt-crystallized, metal-evaporated poly(butene-1) ultrathin films. <i>Macromolecules</i> , 1993, 26, 6552-6556.	2.2	32
95	Effect of the Monomer Ratio on the Strengthening of Polymer Phase Boundaries by Random Copolymers. <i>Macromolecules</i> , 1997, 30, 6727-6736.	2.2	32
96	Aspects of the physical chemistry of polymers, biomaterials and mineralised tissues investigated with atomic force microscopy (AFM). <i>Colloids and Surfaces B: Biointerfaces</i> , 2000, 19, 301-314.	2.5	31
97	Influence of Soft Drinks on the Thickness and Morphology of in Situ Acquired Pellicle Layer on Enamel. <i>Journal of Colloid and Interface Science</i> , 2002, 251, 263-270.	5.0	29
98	Biomimetic mineralization: Long-term observations in patients with dentin sensitivity. <i>Dental Materials</i> , 2012, 28, 457-464.	1.6	29
99	Enhanced bone formation in sheep vertebral bodies after minimally invasive treatment with a novel, PLGA fiber-reinforced brushite cement. <i>Spine Journal</i> , 2017, 17, 709-719.	0.6	28
100	Acids with an equivalent taste lead to different erosion of human dental enamel. <i>Dental Materials</i> , 2011, 27, 1017-1023.	1.6	27
101	Fishing for compliance. <i>Nature Materials</i> , 2008, 7, 692-693.	13.3	26
102	Degree of Conversion of Luting Resins Around Ceramic Inlays in Natural Deep Cavities: A Micro-Raman Spectroscopy Analysis. <i>Operative Dentistry</i> , 2010, 35, 579-586.	0.6	26
103	Morphology and structure of polymer layers protecting dental enamel against erosion. <i>Dental Materials</i> , 2012, 28, 1089-1097.	1.6	26
104	Improved Microcontact Printing of Proteins using Hydrophilic Thermoplastic Elastomers as Stamp Materials. <i>Advanced Engineering Materials</i> , 2007, 9, 1123-1128.	1.6	25
105	A new strategy to prepare temperature-sensitive poly(N-isopropylacrylamide) microgels. <i>Colloid and Polymer Science</i> , 2008, 286, 1209-1213.	1.0	25
106	Crystalline Monolayer Ordering at Substrate/Polymer Interfaces in Poly(3-hexylthiophene) Ultrathin Films. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 905-914.	1.1	25
107	Single-Molecule Tracking of Fibrinogen Dynamics on Nanostructured Poly(ethylene) Films. <i>Advanced Functional Materials</i> , 2012, 22, 2617-2623.	7.8	25
108	Cu on porous glass: An easily recyclable catalyst for the microwave-assisted azide-alkyne cycloaddition in water. <i>Applied Catalysis A: General</i> , 2013, 451, 94-100.	2.2	25

#	ARTICLE	IF	CITATIONS
109	Hemodynamic aspects of reduced platelet adhesion on bioinspired microstructured surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 502-509.	2.5	24
110	Effects of oxygen plasma treatment on interfacial shear strength and post-peak residual strength of a PLGA fiber-reinforced brushite cement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 57, 347-358.	1.5	24
111	Protein Adsorption on Nano-scaled, Rippled TiO <sub>2</sub> and Si Surfaces. <i>Biointerphases</i> , 2012, 7, 55.	0.6	23
112	Interfacial Free Energy Driven Nanophase Separation in Poly(3-hexylthiophene)/[6,6]-Phenyl-C61-butyric Acid Methyl Ester Thin Films. <i>Langmuir</i> , 2012, 28, 5257-5266.	1.6	22
113	Low-dose BMP-2 is sufficient to enhance the bone formation induced by an injectable, PLGA fiber-reinforced, brushite-forming cement in a sheep defect model of lumbar osteopenia. <i>Spine Journal</i> , 2017, 17, 1699-1711.	0.6	22
114	Rationally Engineered Electrodes for a High-Performance Solid-State Cable-Type Supercapacitor. <i>Advanced Functional Materials</i> , 2017, 27, 1606696.	7.8	22
115	Microorganisms @ materials surfaces in aircraft: Potential risks for public health? â€” A systematic review. <i>Travel Medicine and Infectious Disease</i> , 2019, 28, 6-14.	1.5	22
116	Effect of an electric field during the deposition of silicon dioxide thin films by plasma enhanced atomic layer deposition: an experimental and computational study. <i>Nanoscale</i> , 2020, 12, 2089-2102.	2.8	22
117	Characterization of poly(1-butene) surfaces by scanning tunneling microscopy. <i>Polymer Bulletin</i> , 1991, 26, 95-100.	1.7	21
118	Stable Extracellular Matrix Protein Patterns Guide the Orientation of Osteoblast-Like Cells. <i>Advanced Functional Materials</i> , 2011, 21, 4079-4087.	7.8	21
119	Microwave-Assisted Partial Hydrogenation of Citral by using Ionic Liquid-Coated Porous Glass Catalysts. <i>ChemSusChem</i> , 2011, 4, 1654-1661.	3.6	20
120	Maintaining the Hydrophilic-Hydrophobic Balance of Polyesters with Adjustable Crystallinity for Tailor-Made Nanoparticles. <i>Macromolecules</i> , 2018, 51, 5567-5576.	2.2	20
121	Decreased extrusion of calcium phosphate cement versus high viscosity PMMA cement into spongious bone marrowâ€”an ex vivo and in vivo study in sheep vertebrae. <i>Spine Journal</i> , 2016, 16, 1468-1477.	0.6	19
122	How Nanotopography-Induced Conformational Changes of Fibrinogen Affect Platelet Adhesion and Activation. <i>Langmuir</i> , 2020, 36, 11573-11580.	1.6	19
123	Sustainable preparation of anti-inflammatory atorvastatin PLGA nanoparticles. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120404.	2.6	19
124	Templating $\beta$ -Helical Poly(L-lysine)/Polyanion Complexes by Nanostructured Uniaxially Oriented Ultrathin Polyethylene Films. <i>Langmuir</i> , 2010, 26, 18893-18901.	1.6	18
125	Responsive copolymer-graphene oxide hybrid microspheres with enhanced drug release properties. <i>RSC Advances</i> , 2017, 7, 3720-3726.	1.7	17
126	High-resolution STM-imaging of highly oriented ultra thin poly(ethylene) films. <i>Polymer Bulletin</i> , 1991, 27, 101-107.	1.7	16

#	ARTICLE	IF	CITATIONS
127	Tuning Cell Adhesion on PTFE Surfaces by Laser Induced Microstructures. <i>Advanced Engineering Materials</i> , 2007, 9, 1104-1113.	1.6	16
128	Fibrinogen Adsorption on Biomaterials – A Numerical Study. <i>Macromolecular Bioscience</i> , 2010, 10, 1216-1223.	2.1	16
129	First-time systematic postoperative clinical assessment of a minimally invasive approach for lumbar ventrolateral vertebroplasty in the large animal model sheep. <i>Spine Journal</i> , 2016, 16, 1263-1275.	0.6	16
130	Enhanced Osteoblast Adhesion to Epoxide-Functionalized Surfaces. <i>Advanced Functional Materials</i> , 2008, 18, 1723-1731.	7.8	15
131	Novel 1-D biophotonic nanohybrids: protein nanofibers meet quantum dots. <i>Soft Matter</i> , 2011, 7, 2011.	1.2	15
132	Extended-Chain Induced Bulk Morphologies Occur at Surfaces of Thin Co-Oligomer Films. <i>Macromolecules</i> , 2012, 45, 4740-4748.	2.2	15
133	Alignment of multi-wall carbon nanotubes by disentanglement in ultra-thin melt-drawn polymer films. <i>Carbon</i> , 2013, 60, 366-378.	5.4	15
134	Direct observation of a diblock copolymer-induced microemulsion at a polymer/polymer interface. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 2351-2357.	2.4	14
135	Nanoscale Surface Lamellar Orientation and Lamellar Doubling in Ultrathin UHMW-PE Films. <i>Macromolecules</i> , 2007, 40, 5812-5819.	2.2	14
136	Formation and Topotactical Orientation of Fibrinogen Nanofibrils on Graphite Nanostructures. <i>Advanced Engineering Materials</i> , 2009, 11, B177.	1.6	14
137	Mechanical properties of microwave cured glass fibre epoxy composites prepared by resin transfer moulding. <i>Journal of Composite Materials</i> , 2015, 49, 2839-2847.	1.2	14
138	Layer-by-layer gelatin/chitosan polyelectrolyte coated nanoparticles on Ti implants for prevention of implant-associated infections. <i>EXPRESS Polymer Letters</i> , 2017, 11, 73-82.	1.1	14
139	Gold nanoparticle contact point density controls microbial adhesion on gold surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 201-208.	2.5	14
140	Scanning force microscopy of nanostructured uniaxially oriented ultra thin film surfaces of isotactic polystyrene. <i>Polymer</i> , 1992, 33, 5331-5333.	1.8	13
141	Atomic force microscopy of polymer single crystals and melt-drawn films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994, 87, 235-243.	2.3	13
142	Biomimetic Mineralization: Effects on Human Enamel In Vivo. <i>Advanced Engineering Materials</i> , 2010, 12, B571.	1.6	13
143	Liquid Phase Hydrogenation of Benzalacetophenone: Effect of Solvent, Catalyst Support, Catalytic Metal and Reaction Conditions. <i>Chinese Journal of Catalysis</i> , 2011, 32, 1312-1322.	6.9	13
144	Facets of protein assembly on nanostructured titanium oxide surfaces. <i>Acta Biomaterialia</i> , 2013, 9, 5810-5820.	4.1	13

#	ARTICLE	IF	CITATIONS
145	pH-Dependent Ordered Fibrinogen Adsorption on Polyethylene Single Crystals. <i>Langmuir</i> , 2016, 32, 11868-11877.	1.6	13
146	In Vitro Release of Bioactive Bone Morphogenetic Proteins (GDF5, BB-1, and BMP-2) from a PLGA Fiber-Reinforced, Brushite-Forming Calcium Phosphate Cement. <i>Pharmaceutics</i> , 2019, 11, 455.	2.0	13
147	Antibacterial Designs for Implantable Medical Devices: Evolutions and Challenges. <i>Journal of Functional Biomaterials</i> , 2022, 13, 86.	1.8	13
148	Investigating poly(1-butene) films by SFM/STM. <i>Ultramicroscopy</i> , 1992, 42-44, 989-997.	0.8	12
149	GDF5 significantly augments the bone formation induced by an injectable, PLGA fiber-reinforced, brushite-forming cement in a sheep defect model of lumbar osteopenia. <i>Spine Journal</i> , 2017, 17, 1685-1698.	0.6	12
150	The GDF5 mutant BB-1 enhances the bone formation induced by an injectable, poly(l-lactide-co-glycolide) acid (PLGA) fiber-reinforced, brushite-forming cement in a sheep defect model of lumbar osteopenia. <i>Spine Journal</i> , 2018, 18, 357-369.	0.6	12
151	Freezing of Rat Tibiae at -20°C Does Not Affect the Mechanical Properties of Intramedullary Bone/Implant-Interface: Brief Report. <i>The Open Orthopaedics Journal</i> , 2011, 5, 219-222.	0.1	12
152	Scanning force microscopy of the crystalline/amorphous interface of ultradrawn poly(ethylene). <i>Applied Physics A: Solids and Surfaces</i> , 1994, 59, 145-150.	1.4	11
153	High molar mass amphiphilic block copolymer enables alignment and dispersion of unfunctionalized carbon nanotubes in melt-drawn thin-films. <i>Polymer</i> , 2017, 127, 15-27.	1.8	11
154	Poly(3-ethylglycolide): a well-defined polyester matching the hydrophilic hydrophobic balance of PLA. <i>Polymer Chemistry</i> , 2019, 10, 5440-5451.	1.9	11
155	Self-Assembly of Copolyesters into Stereocomplex Crystallites Tunes the Properties of Polyester Nanoparticles. <i>Macromolecules</i> , 2020, 53, 8340-8351.	2.2	11
156	Infections @ Trauma/Orthopedic Implants: Recent Advances on Materials, Methods, and Microbes – A Mini-Review. <i>Materials</i> , 2021, 14, 5834.	1.3	11
157	A combined scanning tunneling, scanning force, frictional force, and attractive force microscope. <i>Review of Scientific Instruments</i> , 1994, 65, 390-393.	0.6	10
158	Monodisperse, Temperature-Sensitive Microgels Crosslinked by Si-O-Si Bonds. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 396-404.	1.7	10
159	Selectively Promoting or Preventing Osteoblast Growth on Titanium Functionalized with Polyelectrolyte Multilayers. <i>Advanced Engineering Materials</i> , 2011, 13, B454.	1.6	10
160	Enveloping Self-Assembly of Carbon Nanotubes at Copolymer Micelle Cores. <i>Langmuir</i> , 2014, 30, 14263-14269.	1.6	10
161	Zwitterionic Cellulose Carbamate with Regioselective Substitution Pattern: A Coating Material Possessing Antimicrobial Activity. <i>Macromolecular Bioscience</i> , 2016, 16, 522-534.	2.1	10
162	Template assisted surface microstructuring of flowable dental composites and its effect on microbial adhesion properties. <i>Dental Materials</i> , 2016, 32, 476-487.	1.6	10

#	ARTICLE	IF	CITATIONS
163	Copolymerization of Caprolactone Isomers to Obtain Nanoparticles with Constant Hydrophobicity and Tunable Crystallinity. <i>Macromolecules</i> , 2020, 53, 5208-5217.	2.2	10
164	Pathway mediated microstructures and phase morphologies of asymmetric double crystalline co-oligomers. <i>RSC Advances</i> , 2014, 4, 7900.	1.7	9
165	How the Calorimetric Properties of a Crystalline Copolymer Correlate to Its Surface Nanostructures. <i>Macromolecules</i> , 2014, 47, 1705-1714.	2.2	9
166	The poly (l-lactid-co-glycolide; PLGA) fiber component of brushite-forming calcium phosphate cement induces the osteogenic differentiation of human adipose tissue-derived stem cells. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 055012.	1.7	9
167	Quantifying the relationship between surfaces' nano-contact point density and adhesion force of <i>Candida albicans</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111177.	2.5	9
168	Strain-Induced Phase Morphology in Melt Drawn Ultrathin Highly Oriented Block Copolymer Films. <i>Macromolecular Rapid Communications</i> , 2008, 29, 876-884.	2.0	8
169	Temperature-Sensitive Simultaneous Interpenetrating Polymeric Networks With Improved Mechanical Properties and Shrinking Kinetics. <i>Advanced Engineering Materials</i> , 2009, 11, B12.	1.6	8
170	Colonization of <i>Enterococcus faecalis</i> in a new SiO/SiO <sub>2</sub> -microtube in vitro model system as a function of tubule diameter. <i>Dental Materials</i> , 2014, 30, 661-668.	1.6	8
171	Mechanisms and kinetics of the crystal thickening of poly(butadiene)-block-poly(ethylene oxide) during annealing within the melting range. <i>European Polymer Journal</i> , 2015, 68, 10-20.	2.6	8
172	Nanocrystal Width Controls Fibrinogen Orientation and Assembly Kinetics on Poly(butene-1) Surfaces. <i>Langmuir</i> , 2017, 33, 6563-6571.	1.6	8
173	Short-time pre-washing of brushite-forming calcium phosphate cement improves its in vitro cytocompatibility. <i>Tissue and Cell</i> , 2017, 49, 697-710.	1.0	8
174	Biopolymer surface modification of PLGA fibers enhances interfacial shear strength and supports immobilization of rhGDF-5 in fiber-reinforced brushite cement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 115, 104285.	1.5	8
175	The antimicrobial effect of calcium-doped titanium is activated by fibrinogen adsorption. <i>Materials Horizons</i> , 2022, 9, 1962-1968.	6.4	8
176	Microstructure of block copolymer reinforced interfaces observed with frictional force microscopy. <i>Advanced Materials</i> , 1996, 8, 660-662.	11.1	7
177	The Effect of $\langle d \rangle$ Lactidyl/ $\mu$ Caproyl Weight Ratio and Chemical Microstructure on Surface Properties of Biodegradable Poly ( $\langle d \rangle$ Lactide)-co-Poly ( $\mu$ Caprolactone) Random Copolymers. <i>Advanced Engineering Materials</i> , 2008, 10, B23.	1.6	7
178	Nanoconfinement and Sansetsukon-like Nanocrawling Govern Fibrinogen Dynamics and Self-Assembly on Nanostructured Polymeric Surfaces. <i>Langmuir</i> , 2018, 34, 14309-14316.	1.6	7
179	Drug delivery of 6-bromoindirubin-3 <sup>TM</sup> -glycerol-oxime ether employing poly(d,l-lactide-co-glycolide)-based nanoencapsulation techniques with sustainable solvents. <i>Journal of Nanobiotechnology</i> , 2022, 20, 5.	4.2	7
180	Osteocytes Influence on Bone Matrix Integrity Affects Biomechanical Competence at Bone-Implant Interface of Bioactive-Coated Titanium Implants in Rat Tibiae. <i>International Journal of Molecular Sciences</i> , 2022, 23, 374.	1.8	7

#	ARTICLE	IF	CITATIONS
181	Microscopic aspects of polymer-metal epitaxy. <i>Journal of Materials Science</i> , 1996, 31, 1779-1788.	1.7	6
182	Multiple Surface Functionalities through Step-by-Step Hydrolysis of Self-Assembled Monolayers. <i>Chemistry of Materials</i> , 2008, 20, 5197-5202.	3.2	6
183	Effect of O <sub>2</sub> -Plasma Treatment on Surface Characteristics and Osteoblast-Like MG-63 Cells Response of Ti-30Nb-1Fe-1Hf Alloy. <i>Materials Transactions</i> , 2009, 50, 891-898.	0.4	6
184	The Janus SAM Approach for the Flexible Functionalization of Gold and Titanium Oxide Surfaces. <i>Small</i> , 2010, 6, 465-470.	5.2	6
185	A Comparison of the Cell Compatibility of Poly(ethyleneimine) with that of other Cationic Biopolymers Used in Applications at Biointerfaces. <i>Advanced Engineering Materials</i> , 2011, 13, B285.	1.6	6
186	Quantitative characterization of endothelial cell morphologies depending on shear stress in different blood vessels of domestic pigs using a focused ion beam and high resolution scanning electron microscopy (FIB-SEM). <i>Tissue and Cell</i> , 2015, 47, 205-212.	1.0	6
187	Postembedding Decalcification of Mineralized Tissue Sections Preserves the Integrity of Implanted Biomaterials and Minimizes Number of Experimental Animals. <i>BioMed Research International</i> , 2017, 2017, 1-10.	0.9	6
188	Clinical long-term success of contemporary nano-filled resin composites in class I and II restorations cured by LED or halogen light. <i>Clinical Oral Investigations</i> , 2018, 22, 1651-1662.	1.4	6
189	The Action Networks of Nanosilver: Bridging the Gap between Material and Biology. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100619.	3.9	6
190	Effectiveness of Casein Phosphopeptide-Amorphous Calcium Phosphate (CPP-ACP) Compared to Fluoride Products in an In-Vitro Demineralization Model. <i>Materials</i> , 2021, 14, 5974.	1.3	6
191	Definition of the Joint Cartilage-Bone Interface by Topological Scanning Technologies: Considerations for Optimized Material Interfaces in Implant Technology. <i>Advanced Engineering Materials</i> , 2007, 9, 1097-1103.	1.6	5
192	Editorial <i>Advanced Biomaterials 1/2008</i> . <i>Advanced Engineering Materials</i> , 2008, 10, B1-B2.	1.6	5
193	Antibacterial effect of silver (I) carbohydrate complexes on oral pathogenic key species in vitro. <i>BMC Oral Health</i> , 2016, 16, 42.	0.8	5
194	The old sheep: a convenient and suitable model for senile osteopenia. <i>Journal of Bone and Mineral Metabolism</i> , 2020, 38, 620-630.	1.3	5
195	Bioactive TiO <sub>2</sub> Coating on Titanium Alloy Implants Enhances Osseointegration in a Rat Model. <i>Advanced Engineering Materials</i> , 2012, 14, B21.	1.6	4
196	How different mesophases affect the interactive crystallisation of a block co-oligomer. <i>Polymer</i> , 2014, 55, 1893-1900.	1.8	4
197	Reduced Graphene Oxide Paper: Fabrication by a Green Thermal Reduction Method and Preliminary Study of its In Vitro Cytotoxicity. <i>Journal of Nano Research</i> , 2017, 45, 199-207.	0.8	4
198	3D model of intra-yarn fiber volume fraction gradients of woven fabrics. <i>Composite Structures</i> , 2017, 180, 944-954.	3.1	4

#	ARTICLE	IF	CITATIONS
199	Self-assembled fibrinogen-fibronectin hybrid protein nanofibers with medium-sensitive stability. RSC Advances, 2021, 11, 14113-14120.	1.7	4
200	Distinct endocytosis and immune activation of poly(lactic-co-glycolic) acid nanoparticles prepared by single- and double-emulsion evaporation. Nanomedicine, 2021, 16, 2075-2094.	1.7	4
201	Rutile facet-dependent fibrinogen conformation: Why crystallographic orientation matters. Colloids and Surfaces B: Biointerfaces, 2022, 215, 112506.	2.5	4
202	STM investigations of an alkane-metal-system (C32H66/In). Polymer Bulletin, 1994, 33, 687-691.	1.7	3
203	Surface morphology of a liquid crystalline side-chain polymer investigated by scanning force microscopy. Polymer Bulletin, 1994, 32, 487-492.	1.7	3
204	Observation of phase transitions in an antiferroelectric liquid crystal investigated by scanning tunneling microscopy. Journal of Applied Physics, 1995, 77, 122-126.	1.1	3
205	Advanced Biomaterials2010: Growth. Advanced Engineering Materials, 2010, 12, B1-B2.	1.6	3
206	Discrimination between random and non-random processes in early bacterial colonization on biomaterial surfaces: application of point pattern analysis. Biofouling, 2014, 30, 1023-1033.	0.8	3
207	Novel protein and peptide nanofibrous structures via supramolecular co-assembly. , 2020, , 69-97.		3
208	Performance of Calcium Phosphate Cements in the Augmentation of Sheep Vertebrae-An Ex Vivo Study. Materials, 2021, 14, 3873.	1.3	3
209	A Method for the Real-time Observation of Endodermal Cell Behavior on Micropatterned Surfaces. Advanced Engineering Materials, 2009, 11, B106.	1.6	2
210	Near-surface Microstructural Reorganization of UHMWPE under Cyclic Load - A Pilot Study. Advanced Engineering Materials, 2011, 13, B476.	1.6	2
211	Quantitative characterization of the complexation between proteins and electroneutral polymers. RSC Advances, 2013, 3, 20254.	1.7	2
212	In vitro analysis of biopolymer coating with glycidoxypolytrimethoxysilane on hernia meshes. , 2017, 105, 1083-1090.		2
213	Indirect morphological analysis of particles in polymer particle composites via non-destructive permittivity measurements. Composites Science and Technology, 2019, 169, 176-185.	3.8	2
214	Polystyrene Homopolymer Enhances Dispersion of MWCNTs Stabilized in Solution by a PS-b-P2VP Copolymer. Langmuir, 2021, 37, 391-399.	1.6	2
215	An advanced geometrical model for laminated woven fabrics using Lamé exponents with enhanced accuracy. Journal of Composite Materials, 2018, 52, 1443-1455.	1.2	1
216	Acetabular Cup with a Trabecular Coating: A Novel Approach to a Monolithic Cup Made of One High-strength Ceramic Material. Advanced Engineering Materials, 2018, 20, 1800230.	1.6	1

#	ARTICLE	IF	CITATIONS
217	The Nanostructure of Evaporated Titanium Thin Films for Biological Performance Studies. <i>Microscopy and Microanalysis</i> , 2003, 9, 456-457.	0.2	0
218	Controlling Cell Growth by Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2006, 950, 1.	0.1	0
219	Foundation for Chinese-German Cooperation in advanced biomedical nanostructures laid. <i>Advanced Engineering Materials</i> , 2010, 12, B396-B396.	1.6	0
220	Facing Biointerfaces. <i>Advanced Engineering Materials</i> , 2011, 13, B333-B333.	1.6	0
221	Towards ECM-Analogue Three-Dimensional Biointerfaces. <i>Advanced Engineering Materials</i> , 2011, 13, B263-B263.	1.6	0
222	Focus on Materials in Biomaterials Science. <i>Advanced Engineering Materials</i> , 2011, 13, B431.	1.6	0
223	Euro BioMat 2011. <i>Advanced Engineering Materials</i> , 2012, 14, B3-B3.	1.6	0
224	An Advanced Transformation. <i>Advanced Engineering Materials</i> , 2012, 14, B293-B293.	1.6	0
225	Biomaterials at Materials Science and Engineering (MSE) 2012. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2013, 2, 98-99.	0.7	0