

Nan Huang

List of Publications by Year in descending order

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papers

5,696
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81900

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times ranked

6428
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#	ARTICLE	IF	CITATIONS
1	Enhanced Retention and Cellular Uptake of Nanoparticles in Tumors by Controlling Their Aggregation Behavior. <i>ACS Nano</i> , 2013, 7, 6244-6257.	14.6	309
2	Surface and Size Effects on Cell Interaction of Gold Nanoparticles with Both Phagocytic and Nonphagocytic Cells. <i>Langmuir</i> , 2013, 29, 9138-9148.	3.5	183
3	Nitric oxide producing coating mimicking endothelium function for multifunctional vascular stents. <i>Biomaterials</i> , 2015, 63, 80-92.	11.4	162
4	Multifunctional Coating Based on Hyaluronic Acid and Dopamine Conjugate for Potential Application on Surface Modification of Cardiovascular Implanted Devices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 109-121.	8.0	132
5	Immobilization of heparin/poly-L-lysine nanoparticles on dopamine-coated surface to create a heparin density gradient for selective direction of platelet and vascular cells behavior. <i>Acta Biomaterialia</i> , 2014, 10, 1940-1954.	8.3	126
6	Mussel-Inspired One-Step Adherent Coating Rich in Amine Groups for Covalent Immobilization of Heparin: Hemocompatibility, Growth Behaviors of Vascular Cells, and Tissue Response. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14608-14620.	8.0	115
7	Flow-induced corrosion behavior of absorbable magnesium-based stents. <i>Acta Biomaterialia</i> , 2014, 10, 5213-5223.	8.3	114
8	The role of heparin binding surfaces in the direction of endothelial and smooth muscle cell fate and re-endothelialization. <i>Biomaterials</i> , 2012, 33, 6615-6625.	11.4	113
9	Mussel-inspired dopamine-Cull coatings for sustained in situ generation of nitric oxide for prevention of stent thrombosis and restenosis. <i>Biomaterials</i> , 2019, 194, 117-129.	11.4	110
10	Biomimetic engineering endothelium-like coating on cardiovascular stent through heparin and nitric oxide-generating compound synergistic modification strategy. <i>Biomaterials</i> , 2019, 207, 10-22.	11.4	106
11	Assembly of Metal-Phenolic/Catecholamine Networks for Synergistically Anti-Inflammatory, Antimicrobial, and Anticoagulant Coatings. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40844-40853.	8.0	104
12	Mussel-inspired catalytic selenocystamine-dopamine coatings for long-term generation of therapeutic gas on cardiovascular stents. <i>Biomaterials</i> , 2018, 178, 1-10.	11.4	99
13	Bioclickable and mussel adhesive peptide mimics for engineering vascular stent surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16127-16137.	7.1	99
14	Direct thrombin inhibitor-bivalirudin functionalized plasma polymerized allylamine coating for improved biocompatibility of vascular devices. <i>Biomaterials</i> , 2012, 33, 7959-7971.	11.4	94
15	Multidentate Polyethylene Glycol Modified Gold Nanorods for in Vivo Near-Infrared Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5657-5668.	8.0	94
16	Controlling Molecular Weight of Hyaluronic Acid Conjugated on Amine-rich Surface: Toward Better Multifunctional Biomaterials for Cardiovascular Implants. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30343-30358.	8.0	83
17	Endothelium-Mimicking Multifunctional Coating Modified Cardiovascular Stents via a Stepwise Metal-Catechol-(Amine) Surface Engineering Strategy. <i>Research</i> , 2020, 2020, 9203906.	5.7	81
18	Flow-induced corrosion of absorbable magnesium alloy: In-situ and real-time electrochemical study. <i>Corrosion Science</i> , 2016, 104, 277-289.	6.6	79

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19	The blood compatibility challenge. Part 4: Surface modification for hemocompatible materials: Passive and active approaches to guide blood-material interactions. <i>Acta Biomaterialia</i> , 2019, 94, 33-43.	8.3	78
20	A simple one-step modification of various materials for introducing effective multi-functional groups. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 125-133.	5.0	65
21	Metal-Phenolic Surfaces for Generating Therapeutic Nitric Oxide Gas. <i>Chemistry of Materials</i> , 2018, 30, 5220-5226.	6.7	64
22	Application Of Phenol/Amine Copolymerized Film Modified Magnesium Alloys: Anticorrosion And Surface Biofunctionalization. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24510-24522.	8.0	61
23	Mimicking the Nitric Oxide-Releasing and Glycocalyx Functions of Endothelium on Vascular Stent Surfaces. <i>Advanced Science</i> , 2020, 7, 2002330.	11.2	59
24	A facile metal-phenolic-amine strategy for dual-functionalization of blood-contacting devices with antibacterial and anticoagulant properties. <i>Materials Chemistry Frontiers</i> , 2019, 3, 265-275.	5.9	55
25	Mussel-inspired "built-up" surface chemistry for combining nitric oxide catalytic and vascular cell selective properties. <i>Biomaterials</i> , 2020, 241, 119904.	11.4	54
26	A tough nitric oxide-eluting hydrogel coating suppresses neointimal hyperplasia on vascular stent. <i>Nature Communications</i> , 2021, 12, 7079.	12.8	54
27	Directing Vascular Cell Selectivity and Hemocompatibility on Patterned Platforms Featuring Variable Topographic Geometry and Size. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12062-12070.	8.0	52
28	A novel coating of type IV collagen and hyaluronic acid on stent material-titanium for promoting smooth muscle cell contractile phenotype. <i>Materials Science and Engineering C</i> , 2014, 38, 235-243.	7.3	52
29	Polydopamine Modified TiO ₂ Nanotube Arrays for Long-Term Controlled Elution of Bivalirudin and Improved Hemocompatibility. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7649-7660.	8.0	52
30	Synergetic coordination and catecholamine chemistry for catalytic generation of nitric oxide on vascular stents. <i>NPG Asia Materials</i> , 2018, 10, 482-496.	7.9	50
31	"Mixed-charge Self-Assembled Monolayers" as A Facile Method to Design pH-induced Aggregation of Large Gold Nanoparticles for Near-Infrared Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18930-18937.	8.0	49
32	Poly-dopamine, poly-levodopa, and poly-norepinephrine coatings: Comparison of physico-chemical and biological properties with focus on the application for blood-contacting devices. <i>Bioactive Materials</i> , 2021, 6, 285-296.	15.6	49
33	Phenolic-amine chemistry mediated synergistic modification with polyphenols and thrombin inhibitor for combating the thrombosis and inflammation of cardiovascular stents. <i>Biomaterials</i> , 2021, 269, 120626.	11.4	47
34	Cooperative control of blood compatibility and re-endothelialization by immobilized heparin and substrate topography. <i>Acta Biomaterialia</i> , 2015, 15, 150-163.	8.3	45
35	Gallic Acid Tailoring Surface Functionalities of Plasma-Polymerized Allylamine-Coated 316L SS to Selectively Direct Vascular Endothelial and Smooth Muscle Cell Fate for Enhanced Endothelialization. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2647-2656.	8.0	44
36	Effects of polydopamine functionalized titanium dioxide nanotubes on endothelial cell and smooth muscle cell. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 553-560.	5.0	43

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37	Tailoring of the titanium surface by preparing cardiovascular endothelial extracellular matrix layer on the hyaluronic acid micro-pattern for improving biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 201-210.	5.0	43
38	Multifunctional coatings that mimic the endothelium: surface bound active heparin nanoparticles with <i>in situ</i> generation of nitric oxide from nitrosothiols. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5582-5595.	5.8	43
39	Immobilization of DNA aptamers via plasma polymerized allylamine film to construct an endothelial progenitor cell-capture surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 70-79.	5.0	42
40	Graphene oxide coated Titanium Surfaces with Osteoimmunomodulatory Role to Enhance Osteogenesis. <i>Materials Science and Engineering C</i> , 2020, 113, 110983.	7.3	41
41	Pulsed-Plasma Polymeric Allylamine Thin Films. <i>Plasma Processes and Polymers</i> , 2009, 6, 498-505.	3.0	39
42	Ex vivo blood vessel bioreactor for analysis of the biodegradation of magnesium stent models with and without vessel wall integration. <i>Acta Biomaterialia</i> , 2017, 50, 546-555.	8.3	39
43	Absorbable magnesium-based stent: physiological factors to consider for in vitro degradation assessments. <i>International Journal of Energy Production and Management</i> , 2015, 2, 59-69.	3.7	37
44	Engineering Cardiovascular Implant Surfaces to Create a Vascular Endothelial Growth Microenvironment. <i>Biotechnology Journal</i> , 2017, 12, 1600401.	3.5	37
45	Metal-catechol-(amine) networks for surface synergistic catalytic modification: Therapeutic gas generation and biomolecule grafting. <i>Biomaterials</i> , 2020, 248, 119981.	11.4	37
46	From surface to bulk modification: Plasma polymerization of amine-bearing coating by synergic strategy of biomolecule grafting and nitric oxide loading. <i>Bioactive Materials</i> , 2020, 5, 17-25.	15.6	37
47	Immobilization of serum albumin and peptide aptamer for EPC on polydopamine coated titanium surface for enhanced in-situ self-endothelialization. <i>Materials Science and Engineering C</i> , 2016, 60, 219-229.	7.3	35
48	Crystallization and thermal properties of PLLA comb polymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 589-598.	2.1	34
49	Polydopamine-mediated long-term elution of the direct thrombin inhibitor bivalirudin from TiO ₂ nanotubes for improved vascular biocompatibility. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6767-6778.	5.8	34
50	The effect of ligand composition on the <i>in vivo</i> fate of multidentate poly(ethylene glycol) modified gold nanoparticles. <i>Biomaterials</i> , 2013, 34, 8370-8381.	11.4	33
51	Controlling mesenchymal stem cells differentiate into contractile smooth muscle cells on a TiO ₂ micro/nano interface: Towards benign pericytes environment for endothelialization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 410-419.	5.0	33
52	Dopamine-assisted deposition of poly (ethylene imine) for efficient heparinization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 90-98.	5.0	33
53	Mechanical response of cardiovascular stents under vascular dynamic bending. <i>BioMedical Engineering OnLine</i> , 2016, 15, 21.	2.7	33
54	A Mussel-Inspired Facile Method to Prepare Multilayer-AgNP-Loaded Contact Lens for Early Treatment of Bacterial and Fungal Keratitis. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1568-1579.	5.2	32

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55	Copper-Incorporated Collagen/Catechol Film for in Situ Generation of Nitric Oxide. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 771-779.	5.2	30
56	A Versatile Surface Bioengineering Strategy Based on Mussel-Inspired and Bioclickable Peptide Mimic. <i>Research</i> , 2020, 2020, 7236946.	5.7	29
57	Syntheses of novel chitosan derivative with excellent solubility, anticoagulation, and antibacterial property by chemical modification. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2641-2648.	2.6	28
58	Controlling the corrosion rate and behavior of biodegradable magnesium by a surface-immobilized ultrathin 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP) film. <i>RSC Advances</i> , 2016, 6, 15247-15259.	3.6	28
59	Improvement of corrosion resistance and biocompatibility of biodegradable metallic vascular stent via plasma allylamine polymerized coating. <i>Materials and Design</i> , 2016, 96, 341-349.	7.0	28
60	In vitro and in vivo cytocompatibility evaluation of biodegradable magnesium-based stents: a review. <i>Science China Materials</i> , 2018, 61, 501-515.	6.3	28
61	Co-culture of endothelial cells and patterned smooth muscle cells on titanium: Construction with high density of endothelial cells and low density of smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 456, 555-561.	2.1	27
62	Surface-Degradable Drug-Eluting Stent with Anticoagulation, Antiproliferation, and Endothelialization Functions. <i>Biomolecules</i> , 2019, 9, 69.	4.0	27
63	Mg-Phenolic Network Strategy for Enhancing Corrosion Resistance and Osteocompatibility of Degradable Magnesium Alloys. <i>ACS Omega</i> , 2019, 4, 21931-21944.	3.5	27
64	Preparation of a biomimetic ECM surface on cardiovascular biomaterials via a novel layer-by-layer decellularization for better biocompatibility. <i>Materials Science and Engineering C</i> , 2019, 96, 509-521.	7.3	27
65	Efficient Preparation of Enantiopure D-Phenylalanine through Asymmetric Resolution Using Immobilized Phenylalanine Ammonia-Lyase from <i>Rhodotorula glutinis</i> JN-1 in a Recirculating Packed-Bed Reactor. <i>PLoS ONE</i> , 2014, 9, e108586.	2.5	27
66	Multiphoton photochemical crosslinking-based fabrication of protein micropatterns with controllable mechanical properties for single cell traction force measurements. <i>Scientific Reports</i> , 2016, 6, 20063.	3.3	26
67	Investigation of enhanced hemocompatibility and tissue compatibility associated with multi-functional coating based on hyaluronic acid and Type IV collagen. <i>International Journal of Energy Production and Management</i> , 2016, 3, 149-157.	3.7	26
68	Nitric oxide-generating compound and bio-clickable peptide mimic for synergistically tailoring surface anti-thrombogenic and anti-microbial dual-functions. <i>Bioactive Materials</i> , 2021, 6, 1618-1627.	15.6	26
69	Endothelium-Mimicking Surface Combats Thrombosis and Biofouling via Synergistic Long- and Short-Distance Defense Strategy. <i>Small</i> , 2021, 17, e2100729.	10.0	26
70	Photo-functionalized TiO ₂ nanotubes decorated with multifunctional Ag nanoparticles for enhanced vascular biocompatibility. <i>Bioactive Materials</i> , 2021, 6, 45-54.	15.6	25
71	Durable endothelium-mimicking coating for surface bioengineering cardiovascular stents. <i>Bioactive Materials</i> , 2021, 6, 4786-4800.	15.6	25
72	Contractive Polymeric Complex Micelles as Thermo-Sensitive Nanopumps. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1410-1414.	3.9	24

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73	Design and construction of TiO ₂ nanotubes in microarray using two-step anodic oxidation for application of cardiovascular implanted devices. <i>Micro and Nano Letters</i> , 2015, 10, 287-291.	1.3	24
74	Constructing bio-functional layers of hyaluronan and type IV collagen on titanium surface for improving endothelialization. <i>Journal of Materials Science</i> , 2015, 50, 3226-3236.	3.7	24
75	hiPSC Modeling of Lineage-Specific Smooth Muscle Cell Defects Caused by TGFBR1 ^{A230T} Variant, and Its Therapeutic Implications for Loews-Dietz Syndrome. <i>Circulation</i> , 2021, 144, 1145-1159.	1.6	24
76	Facile immobilization of vascular endothelial growth factor on a tannic acid-functionalized plasma-polymerized allylamine coating rich in quinone groups. <i>RSC Advances</i> , 2016, 6, 17188-17195.	3.6	23
77	The Effects of Static and Dynamic Loading on Biodegradable Magnesium Pins In Vitro and In Vivo. <i>Scientific Reports</i> , 2017, 7, 14710.	3.3	23
78	Heparin/polylysine nanoplatform with growth factor delivery for surface modification of cardiovascular stents: The influence of vascular endothelial growth factor loading. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1295-1304.	4.0	23
79	Construction of Polyfunctional Coatings Assisted by Gallic Acid to Facilitate Co-Immobilization of Diverse Biomolecules. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10495-10501.	8.0	22
80	Effect of micropatterned TiO ₂ nanotubes thin film on the deposition of endothelial extracellular matrix: For the purpose of enhancing surface biocompatibility. <i>Biointerphases</i> , 2015, 10, 04A302.	1.6	22
81	Heparin/DNA aptamer co-assembled multifunctional catecholamine coating for EPC capture and improved hemocompatibility of vascular devices. <i>Materials Science and Engineering C</i> , 2017, 79, 305-314.	7.3	22
82	Plant-inspired gallolamine catalytic surface chemistry for engineering an efficient nitric oxide generating coating. <i>Acta Biomaterialia</i> , 2018, 76, 89-98.	8.3	22
83	Biomaterials Regulating Bone Hematoma for Osteogenesis. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000726.	7.6	22
84	Cu ²⁺ -loaded polydopamine coatings with in situ nitric oxide generation function for improved hemocompatibility. <i>International Journal of Energy Production and Management</i> , 2020, 7, 153-160.	3.7	22
85	Recent developments in nitric oxide-releasing biomaterials for biomedical applications. <i>Medical Gas Research</i> , 2019, 9, 184.	2.3	22
86	Mussel-Inspired and Bioclickable Peptide Engineered Surface to Combat Thrombosis and Infection. <i>Research</i> , 2022, 2022, 9780879.	5.7	22
87	The effect of full/partial UV-irradiation of TiO ₂ films on altering the behavior of fibrinogen and platelets. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 709-718.	5.0	21
88	Improving hemocompatibility and accelerating endothelialization of vascular stents by a copper-titanium film. <i>Materials Science and Engineering C</i> , 2016, 69, 1175-1182.	7.3	21
89	Hyaluronic Acid Nanoparticle Composite Films Confer Favorable Time-Dependent Biofunctions for Vascular Wound Healing. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1833-1848.	5.2	21
90	Reactive magnetron co-sputtering of Ti-xCuO coatings: Multifunctional interfaces for blood-contacting devices. <i>Materials Science and Engineering C</i> , 2020, 116, 111198.	7.3	21

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91	Chiral Polymeric Micelles From Electrostatic Assembly Between Achiral Porphyrins and Block Copolymers. <i>Macromolecular Rapid Communications</i> , 2008, 29, 214-218.	3.9	20
92	Effects of ECAE processing temperature on the microstructure, mechanical properties, and corrosion behavior of pure Mg. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 639-647.	4.9	20
93	Influence of chirality on catalytic generation of nitric oxide and platelet behavior on selenocystine immobilized TiO ₂ films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 122-129.	5.0	20
94	The effect of anti-CD133/fucoidan bio-coatings on hemocompatibility and EPC capture. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 2066-2081.	3.5	20
95	Multifunctional Ti-xCu coatings for cardiovascular interfaces: Control of microstructure and surface chemistry. <i>Materials Science and Engineering C</i> , 2019, 104, 109969.	7.3	20
96	Endogenous nitric oxide-generating surfaces via polydopamine-copper coatings for preventing biofilm dispersal and promoting microbial killing. <i>Materials Science and Engineering C</i> , 2021, 128, 112297.	7.3	20
97	New strategies for developing cardiovascular stent surfaces with novel functions (Review). <i>Biointerphases</i> , 2014, 9, 029017.	1.6	19
98	Cell adhesion on supported lipid bilayers functionalized with RGD peptides monitored by using a quartz crystal microbalance with dissipation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 459-464.	5.0	19
99	Constructing bio-layer of heparin and type IV collagen on titanium surface for improving its endothelialization and blood compatibility. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 81.	3.6	19
100	Intelligent H ₂ S release coating for regulating vascular remodeling. <i>Bioactive Materials</i> , 2021, 6, 1040-1050.	15.6	19
101	Hydrogen sulphide-releasing aspirin enhances cell capabilities of anti-oxidative lesions and anti-inflammation. <i>Medical Gas Research</i> , 2019, 9, 145.	2.3	19
102	Improved Hemocompatibility Guided by Pulsed Plasma Tailoring the Surface Amino Functionalities of TiO ₂ Coating for Covalent Immobilization of Heparin. <i>Plasma Processes and Polymers</i> , 2011, 8, 850-858.	3.0	17
103	Current status of research and application in vascular stents. <i>Science Bulletin</i> , 2013, 58, 4362-4370.	1.7	17
104	Ultraviolet irradiation assisted liquid phase deposited titanium dioxide (TiO ₂)-incorporated into phytic acid coating on magnesium for slowing-down biodegradation and improving osteo-compatibility. <i>Materials Science and Engineering C</i> , 2020, 108, 110487.	7.3	17
105	Platelet Adhesion and Activation on Chiral Surfaces: The Influence of Protein Adsorption. <i>Langmuir</i> , 2017, 33, 10402-10410.	3.5	16
106	New Approaches for Hydrogen Therapy of Various Diseases. <i>Current Pharmaceutical Design</i> , 2021, 27, 636-649.	1.9	16
107	Gallic acid and gallic acid-loaded coating involved in selective regulation of platelet, endothelial and smooth muscle cell fate. <i>RSC Advances</i> , 2014, 4, 212-221.	3.6	15
108	Effect of wafer size on the film internal stress measurement by wafer curvature method. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 93-99.	1.0	15

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109	Multistep Instead of One-Step: A Versatile and Multifunctional Coating Platform for Biocompatible Corrosion Protection. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6541-6556.	5.2	15
110	Biocompatibility studies of poly(ethylene glycol)-modified titanium for cardiovascular devices. <i>Journal of Bioactive and Compatible Polymers</i> , 2012, 27, 565-584.	2.1	14
111	Preparation of phospholipid-based polycarbonate urethanes for potential applications of blood-contacting implants. <i>International Journal of Energy Production and Management</i> , 2020, 7, 491-504.	3.7	14
112	Atorvastatin Eluting Coating for Magnesium-Based Stents: Control of Degradation and Endothelialization in a Microfluidic Assay and In Vivo. <i>Advanced Materials Technologies</i> , 2020, 5, 1900947.	5.8	14
113	Photo-immobilized heparin micropatterns on TiO ₂ surface: preparation, characterization, and evaluation in vitro. <i>Journal of Materials Science</i> , 2011, 46, 6772-6782.	3.7	13
114	Research on corrosion behavior of A6N01S-T5 aluminum alloy welded joint for high-speed trains. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 1471-1476.	1.5	13
115	Multifunctional Plasma-Polymerized Film: Toward Better Anticorrosion Property, Enhanced Cellular Growth Ability, and Attenuated Inflammatory and Histological Responses. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 513-524.	5.2	13
116	Tailoring of TiO ₂ films by H ₂ SO ₄ treatment and UV irradiation to improve anticoagulant ability and endothelial cell compatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 155, 314-322.	5.0	13
117	Multiphoton Fabrication of Fibronectin-Functionalized Protein Micropatterns: Stiffness-Induced Maturation of Cell-Matrix Adhesions in Human Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29469-29480.	8.0	13
118	Construction of a fucoidan/laminin functional multilayer to direction vascular cell fate and promotion hemocompatibility. <i>Materials Science and Engineering C</i> , 2016, 64, 236-242.	7.3	12
119	Catalytic Formation of Nitric Oxide Mediated by Ti-Cu Coatings Provides Multifunctional Interfaces for Cardiovascular Applications. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701487.	3.7	12
120	Real-time QCM-D monitoring of endothelial cells and macrophages adhering and spreading to SEMA4D/heparin surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 522-529.	5.0	12
121	Magnesium ion leachables induce a conversion of contractile vascular smooth muscle cells to an inflammatory phenotype. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 988-1001.	3.4	12
122	Photofunctionalized and Drug-Loaded TiO ₂ Nanotubes with Improved Vascular Biocompatibility as a Potential Material for Polymer-Free Drug-Eluting Stents. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2038-2049.	5.2	12
123	Inspired Chemistry for a Simple but Highly Effective Immobilization of Vascular Endothelial Growth Factor on Gallic Acid-Functionalized Plasma Polymerized Film. <i>Plasma Processes and Polymers</i> , 2012, 9, 718-725.	3.0	11
124	Stability research on polydopamine and immobilized albumin on 316L stainless steel. <i>International Journal of Energy Production and Management</i> , 2016, 3, 277-284.	3.7	11
125	Modulating the pH Activity Profiles of Phenylalanine Ammonia Lyase from <i>Anabaena variabilis</i> by Modification of Center-Near Surface Residues. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 699-711.	2.9	11
126	One-Pot but Two-Step Vapor-Based Amine- and Fluorine-Bearing Dual-Layer Coating for Improving Anticorrosion and Biocompatibility of Magnesium Alloy. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4331-4340.	5.2	11

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127	The co-deposition coating of collagen IV and laminin on hyaluronic acid pattern for better biocompatibility on cardiovascular biomaterials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111307.	5.0	11
128	Theoretical calculation and experimental study of influence of oxygen vacancy on the electronic structure and hemocompatibility of rutile TiO ₂ . <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 2742-2748.	0.9	10
129	Layer-by-layer self-assembled laminin/fucoidan films: towards better hemocompatibility and endothelialization. <i>RSC Advances</i> , 2016, 6, 56048-56055.	3.6	10
130	Preferential sensing and response to microenvironment stiffness of human dermal fibroblast cultured on protein micropatterns fabricated by 3D multiphoton biofabrication. <i>Scientific Reports</i> , 2017, 7, 12402.	3.3	10
131	Polydopamine-Modified Copper-Doped Titanium Dioxide Nanotube Arrays for Copper-Catalyzed Controlled Endogenous Nitric Oxide Release and Improved Re-Endothelialization. <i>ACS Applied Bio Materials</i> , 2020, 3, 3123-3136.	4.6	10
132	The protective effect of hydrogen-rich water on rats with type 2 diabetes mellitus. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 3089-3097.	3.1	10
133	Corrosion Resistance of Ti-O Film Modified 316L Stainless Steel Coronary Stents In Vitro. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 424-428.	2.5	9
134	An extracellular matrix-like surface modification on titanium improves implant endothelialization through the reduction of platelet adhesion and the capture of endothelial progenitor cells. <i>Journal of Bioactive and Compatible Polymers</i> , 2013, 28, 33-49.	2.1	9
135	Carbon-Doped Titanium Oxide Films by DC Reactive Magnetron Sputtering Using CO ₂ and O ₂ as Reactive Gas. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014, 27, 239-244.	2.9	9
136	Development of nitric oxide catalytic coatings by conjugating 3,3-disulfodipropionic acid and 3,3-diselenodipropionic acid for improving hemocompatibility. <i>Biointerphases</i> , 2015, 10, 04A303.	1.6	9
137	Analysis of Flow Field in Mechanical Aortic Bileaflet Heart Valves Using Finite Volume Method. <i>Journal of Medical and Biological Engineering</i> , 2016, 36, 110-120.	1.8	9
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