Nan Huang

List of Publications by Year in descending order

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187 papers	5,696 citations	81900 39 h-index	110387 64 g-index
193 all docs	193 docs citations	193 times ranked	6428 citing authors

#	Article	IF	Citations
1	Microstructure and mechanical properties of Cr films deposited with different peak powers by high-power impulse magnetron sputtering. Rare Metals, 2023, 42, 327-335.	7.1	2
2	The structure, formation, and effect of plasma protein layer on the blood contact materials: A review. Biosurface and Biotribology, 2022, 8, 1-14.	1.5	9
3	Micro/Nanoâ€Structured Metalâ€“Organic/Inorganic Hybrid Coatings on Biodegradable Zn for Osteogenic and Biocompatible Improvement. Advanced Materials Interfaces, 2022, 9, .	3.7	9
4	Enhanced Hemocompatibility of Silver Nanoparticles Using the Photocatalytic Properties of Titanium Dioxide. Frontiers in Bioengineering and Biotechnology, 2022, 10, 855471.	4.1	2
5	Mussel-Inspired and Bioclickable Peptide Engineered Surface to Combat Thrombosis and Infection. Research, 2022, 2022, 9780879.	5.7	22
6	Photo-functionalized TiO2 nanotubes decorated with multifunctional Ag nanoparticles for enhanced vascular biocompatibility. Bioactive Materials, 2021, 6, 45-54.	15.6	25
7	Poly-dopamine, poly-levodopa, and poly-norepinephrine coatings: Comparison of physico-chemical and biological properties with focus on the application for blood-contacting devices. Bioactive Materials, 2021, 6, 285-296.	15.6	49
8	Nitric oxide-generating compound and bio-clickable peptide mimic for synergistically tailoring surface anti-thrombogenic and anti-microbial dual-functions. Bioactive Materials, 2021, 6, 1618-1627.	15.6	26
9	Phenolic-amine chemistry mediated synergistic modification with polyphenols and thrombin inhibitor for combating the thrombosis and inflammation of cardiovascular stents. Biomaterials, 2021, 269, 120626.	11.4	47
10	Intelligent H2S release coating for regulating vascular remodeling. Bioactive Materials, 2021, 6, 1040-1050.	15.6	19
11	Comparison of in Vascular Bioreactors and In Vivo Models of Degradation and Cellular Response of Mgâ€“Znâ€“Mn Stents. Annals of Biomedical Engineering, 2021, 49, 1551-1560.	2.5	2
12	Improved corrosion resistance and biocompatibility of biomedical magnesium alloy with polypeptide TK14 functionalised hydrophobic coating. Biosurface and Biotribology, 2021, 7, 12-22.	1.5	1
13	Copperâ€mediated polyurethane materials with enzymeâ€like catalysis for biocompatibility improvement in blood environments. Biosurface and Biotribology, 2021, 7, 30-41.	1.5	1
14	New Approaches for Hydrogen Therapy of Various Diseases. Current Pharmaceutical Design, 2021, 27, 636-649.	1.9	16
15	The protective effect of hydrogen-rich water on rats with type 2 diabetes mellitus. Molecular and Cellular Biochemistry, 2021, 476, 3089-3097.	3.1	10
16	Cell-friendly photo-functionalized TiO2 nano-micro-honeycombs for selectively preventing bacteria and platelet adhesion. Materials Science and Engineering C, 2021, 123, 111996.	7.3	4
17	Self-protonating, plasma polymerized, superimposed multi-layered biomolecule nanoreservoir as blood-contacting surfaces. Chemical Engineering Journal, 2021, 410, 128313.	12.7	5
18	Lidocaine-eluting endotracheal tube effectively attenuates intubation related airway response. Annals of Translational Medicine, 2021, 9, 871-871.	1.7	3

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19	Endotheliumâ€Mimicking Surface Combats Thrombosis and Biofouling via Synergistic Longâ€•and Shortâ€Distance Defense Strategy. Small, 2021, 17, e2100729.	10.0	26
20	Highly Efficient Photocatalytic Antiâ€Bacterial Ag Doped Titanium Dioxide Nanofilms with Combination of Reactive Oxygen Species and Ag Ions Releasing for Application of Vascular Implants. Advanced Materials Interfaces, 2021, 8, 2100892.	3.7	3
21	Biomimetic tubular scaffold with heparin conjugation for rapid degradation in in situ regeneration of a small diameter neoartery. Biomaterials, 2021, 274, 120874.	11.4	6
22	An ex vivo physiologic and hyperplastic vessel culture model to study intra-arterial stent therapies. Biomaterials, 2021, 275, 120911.	11.4	9
23	hiPSC Modeling of Lineage-Specific Smooth Muscle Cell Defects Caused by TGFBR1 ^{A230T} Variant, and Its Therapeutic Implications for Loeys-Dietz Syndrome. Circulation, 2021, 144, 1145-1159.	1.6	24
24	Endogenous nitric oxide-generating surfaces via polydopamine-copper coatings for preventing biofilm dispersal and promoting microbial killing. Materials Science and Engineering C, 2021, 128, 112297.	7.3	20
25	Durable endothelium-mimicking coating for surface bioengineering cardiovascular stents. Bioactive Materials, 2021, 6, 4786-4800.	15.6	25
26	A tough nitric oxide-eluting hydrogel coating suppresses neointimal hyperplasia on vascular stent. Nature Communications, 2021, 12, 7079.	12.8	54
27	Study of functional drug-eluting stent in promoting endothelialization and antiproliferation. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 244-260.	3.5	2
28	Ultraviolet irradiation assisted liquid phase deposited titanium dioxide (TiO2)-incorporated into phytic acid coating on magnesium for slowing-down biodegradation and improving osteo-compatibility. Materials Science and Engineering C, 2020, 108, 110487.	7.3	17
29	Mimicking the Nitric Oxideâ€Releasing and Glycocalyx Functions of Endothelium on Vascular Stent Surfaces. Advanced Science, 2020, 7, 2002330.	11.2	59
30	Biomaterials Regulating Bone Hematoma for Osteogenesis. Advanced Healthcare Materials, 2020, 9, e2000726.	7.6	22
31	Tiâ€“Cu Coatings Deposited by a Combination of HiPIMS and DC Magnetron Sputtering: The Role of Vacuum Annealing on Cu Diffusion, Microstructure, and Corrosion Resistance. Coatings, 2020, 10, 1064.	2.6	5
32	The co-deposition coating of collagen IV and laminin on hyaluronic acid pattern for better biocompatibility on cardiovascular biomaterials. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111307.	5.0	11
33	Preparation of phospholipid-based polycarbonate urethanes for potential applications of blood-contacting implants. International Journal of Energy Production and Management, 2020, 7, 491-504.	3.7	14
34	Reactive magnetron co-sputtering of Ti-xCuO coatings: Multifunctional interfaces for blood-contacting devices. Materials Science and Engineering C, 2020, 116, 111198.	7.3	21
35	Phospholipid-based multifunctional coating via layer-by-layer self-assembly for biomedical applications. Materials Science and Engineering C, 2020, 116, 111237.	7.3	8
36	Cuâ¸-loaded polydopamine coatings with in situ nitric oxide generation function for improved hemocompatibility. International Journal of Energy Production and Management, 2020, 7, 153-160.	3.7	22

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37	Metal-catechol-(amine) networks for surface synergistic catalytic modï¬cation: Therapeutic gas generation and biomolecule grafting. Biomaterials, 2020, 248, 119981.	11.4	37
38	Photofunctionalized and Drug-Loaded TiO₂ Nanotubes with Improved Vascular Biocompatibility as a Potential Material for Polymer-Free Drug-Eluting Stents. ACS Biomaterials Science and Engineering, 2020, 6, 2038-2049.	5.2	12
39	Bioclickable and mussel adhesive peptide mimics for engineering vascular stent surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16127-16137.	7.1	99
40	Heparin/polyâ€lâ€lysine nanoplatform with growth factor delivery for surface modification of cardiovascular stents: The influence of vascular endothelial growth factor loading. Journal of Biomedical Materials Research - Part A, 2020, 108, 1295-1304.	4.0	23
41	Mussel-inspired â€œbuilt-upâ€•surface chemistry for combining nitric oxide catalytic and vascular cell selective properties. Biomaterials, 2020, 241, 119904.	11.4	54
42	From surface to bulk modification: Plasma polymerization of amine-bearing coating by synergic strategy of biomolecule grafting and nitric oxide loading. Bioactive Materials, 2020, 5, 17-25.	15.6	37
43	Atorvastatin Eluting Coating for Magnesiumâ€Based Stents: Control of Degradation and Endothelialization in a Microfluidic Assay and In Vivo. Advanced Materials Technologies, 2020, 5, 1900947.	5.8	14
44	Graphene oxide coated Titanium Surfaces with Osteoimmunomodulatory Role to Enhance Osteogenesis. Materials Science and Engineering C, 2020, 113, 110983.	7.3	41
45	Polydopamine-Modified Copper-Doped Titanium Dioxide Nanotube Arrays for Copper-Catalyzed Controlled Endogenous Nitric Oxide Release and Improved Re-Endothelialization. ACS Applied Bio Materials, 2020, 3, 3123-3136.	4.6	10
46	A Versatile Surface Bioengineering Strategy Based on Mussel-Inspired and Bioclickable Peptide Mimic. Research, 2020, 2020, 7236946.	5.7	29
47	Endothelium-Mimicking Multifunctional Coating Modified Cardiovascular Stents via a Stepwise Metal-Catechol-(Amine) Surface Engineering Strategy. Research, 2020, 2020, 9203906.	5.7	81
48	One-Pot but Two-Step Vapor-Based Amine- and Fluorine-Bearing Dual-Layer Coating for Improving Anticorrosion and Biocompatibility of Magnesium Alloy. ACS Biomaterials Science and Engineering, 2019, 5, 4331-4340.	5.2	11
49	Multifunctional Ti-xCu coatings for cardiovascular interfaces: Control of microstructure and surface chemistry. Materials Science and Engineering C, 2019, 104, 109969.	7.3	20
50	Effects of Adsorption of Albumin and Gamma-Globulin on the Tribological Performance of a Diamond-Like Carbon Film. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 1103-1108.	1.0	3
51	Multistep Instead of One-Step: A Versatile and Multifunctional Coating Platform for Biocompatible Corrosion Protection. ACS Biomaterials Science and Engineering, 2019, 5, 6541-6556.	5.2	15
52	A facile metalâ€“phenolicâ€“amine strategy for dual-functionalization of blood-contacting devices with antibacterial and anticoagulant properties. Materials Chemistry Frontiers, 2019, 3, 265-275.	5.9	55
53	The blood compatibility challenge. Part 4: Surface modification for hemocompatible materials: Passive and active approaches to guide blood-material interactions. Acta Biomaterialia, 2019, 94, 33-43.	8.3	78
54	An Albumin Biopassive Polyallylamine Film with Improved Blood Compatibility for Metal Devices. Polymers, 2019, 11, 734.	4.5	8

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55	Effects of biomimetic micropattern on titanium deposited with PDA/Cu and nitric oxide release on behaviors of ECs. Journal of Materials Research, 2019, 34, 2037-2046.	2.6	6
56	Photolithography-Mediated Area-Selective Immobilization of Biomolecules on Polydopamine Coating. Langmuir, 2019, 35, 7175-7179.	3.5	3
57	Hyaluronic Acid Nanoparticle Composite Films Confer Favorable Time-Dependent Biofunctions for Vascular Wound Healing. ACS Biomaterials Science and Engineering, 2019, 5, 1833-1848.	5.2	21
58	Biomimetic engineering endothelium-like coating on cardiovascular stent through heparin and nitric oxide-generating compound synergistic modification strategy. Biomaterials, 2019, 207, 10-22.	11.4	106
59	Surface-Degradable Drug-Eluting Stent with Anticoagulation, Antiproliferation, and Endothelialization Functions. Biomolecules, 2019, 9, 69.	4.0	27
60	Mgâ€“Phenolic Network Strategy for Enhancing Corrosion Resistance and Osteocompatibility of Degradable Magnesium Alloys. ACS Omega, 2019, 4, 21931-21944.	3.5	27
61	Mussel-inspired dopamine-CuII coatings for sustained in situ generation of nitric oxide for prevention of stent thrombosis and restenosis. Biomaterials, 2019, 194, 117-129.	11.4	110
62	Preparation of a biomimetic ECM surface on cardiovascular biomaterials via a novel layer-by-layer decellularization for better biocompatibility. Materials Science and Engineering C, 2019, 96, 509-521.	7.3	27
63	Magnesium ion leachables induce a conversion of contractile vascular smooth muscle cells to an inflammatory phenotype. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 988-1001.	3.4	12
64	Hydrogen sulphide-releasing aspirin enhances cell capabilities of anti-oxidative lesions and anti-inflammation. Medical Gas Research, 2019, 9, 145.	2.3	19
65	Recent developments in nitric oxide-releasing biomaterials for biomedical applications. Medical Gas Research, 2019, 9, 184.	2.3	22
66	Catalytic Formation of Nitric Oxide Mediated by Tiâ€“Cu Coatings Provides Multifunctional Interfaces for Cardiovascular Applications. Advanced Materials Interfaces, 2018, 5, 1701487.	3.7	12
67	In vitro and in vivo cytocompatibility evaluation of biodegradable magnesium-based stents: a review. Science China Materials, 2018, 61, 501-515.	6.3	28
68	Characterization of Ti-Cu Films Deposited by HPPMS and Effect on NO Catalytic Release and Platelet Adhesion Behavior. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 505-511.	1.0	1
69	A Mussel-Inspired Facile Method to Prepare Multilayer-AgNP-Loaded Contact Lens for Early Treatment of Bacterial and Fungal Keratitis. ACS Biomaterials Science and Engineering, 2018, 4, 1568-1579.	5.2	32
70	Polydopamine Modified TiO₂ Nanotube Arrays for Long-Term Controlled Elution of Bivalirudin and Improved Hemocompatibility. ACS Applied Materials & Interfaces, 2018, 10, 7649-7660.	8.0	52
71	Assembly of Metalâ€“Phenolic/Catecholamine Networks for Synergistically Anti-Inflammatory, Antimicrobial, and Anticoagulant Coatings. ACS Applied Materials & Interfaces, 2018, 10, 40844-40853.	8.0	104
72	Mechanical Property of TiO₂ Nano-Tubes Surface Based on the Investigation of Residual Stress, Tensile Force and Fluid Flow Shear Stress: For Potential Application of Cardiovascular Devices. Journal of Nanoscience and Nanotechnology, 2018, 18, 798-804.	0.9	9

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73	Biomimetic GelMPC Micropatterns on Titanium and Their Effects on Platelets and Endothelialization. Advanced Engineering Materials, 2018, 20, 1800624.	3.5	6
74	Preparation of sulfonated silk fibroin for anti-coagulation material. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 1701-1715.	3.5	2
75	Plant-inspired gallolamine catalytic surface chemistry for engineering an efficient nitric oxide generating coating. Acta Biomaterialia, 2018, 76, 89-98.	8.3	22
76	Real-time QCM-D monitoring of endothelial cells and macrophages adhering and spreading to SEMA4D/heparin surfaces. Colloids and Surfaces B: Biointerfaces, 2018, 171, 522-529.	5.0	12
77	Metal-Phenolic Surfaces for Generating Therapeutic Nitric Oxide Gas. Chemistry of Materials, 2018, 30, 5220-5226.	6.7	64
78	Multifunctional coatings that mimic the endothelium: surface bound active heparin nanoparticles with in situ generation of nitric oxide from nitrosothiols. Journal of Materials Chemistry B, 2018, 6, 5582-5595.	5.8	43
79	Mussel-inspired catalytic selenocystamine-dopamine coatings for long-term generation of therapeutic gas on cardiovascular stents. Biomaterials, 2018, 178, 1-10.	11.4	99
80	Multiphoton 3D Microprinting of Protein Micropatterns with Spatially Controlled Heterogeneity â€“ A Platform for Single Cell Matrix Niche Studies. Advanced Biology, 2018, 2, 1800053.	3.0	5
81	Synergetic coordination and catecholamine chemistry for catalytic generation of nitric oxide on vascular stents. NPG Asia Materials, 2018, 10, 482-496.	7.9	50
82	Micropatterned immobilization of membrane-mimicking polymer and peptides for regulation of cell behaviorsin vitro. RSC Advances, 2018, 8, 20836-20850.	3.6	7
83	Tailoring of TiO2 films by H2SO4 treatment and UV irradiation to improve anticoagulant ability and endothelial cell compatibility. Colloids and Surfaces B: Biointerfaces, 2017, 155, 314-322.	5.0	13
84	Heparin/DNA aptamer co-assembled multifunctional catecholamine coating for EPC capture and improved hemocompatibility of vascular devices. Materials Science and Engineering C, 2017, 79, 305-314.	7.3	22
85	Modulating the pH Activity Profiles of Phenylalanine Ammonia Lyase from Anabaena variabilis by Modification of Center-Near Surface Residues. Applied Biochemistry and Biotechnology, 2017, 183, 699-711.	2.9	11
86	Ex vivo blood vessel bioreactor for analysis of the biodegradation of magnesium stent models with and without vessel wall integration. Acta Biomaterialia, 2017, 50, 546-555.	8.3	39
87	Preferential sensing and response to microenvironment stiffness of human dermal fibroblast cultured on protein micropatterns fabricated by 3D multiphoton biofabrication. Scientific Reports, 2017, 7, 12402.	3.3	10
88	The Effects of Static and Dynamic Loading on Biodegradable Magnesium Pins In Vitro and In Vivo. Scientific Reports, 2017, 7, 14710.	3.3	23
89	Controlling Molecular Weight of Hyaluronic Acid Conjugated on Amine-rich Surface: Toward Better Multifunctional Biomaterials for Cardiovascular Implants. ACS Applied Materials & Interfaces, 2017, 9, 30343-30358.	8.0	83
90	Platelet Adhesion and Activation on Chiral Surfaces: The Influence of Protein Adsorption. Langmuir, 2017, 33, 10402-10410.	3.5	16

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91	Engineering Cardiovascular Implant Surfaces to Create a Vascular Endothelial Growth Microenvironment. Biotechnology Journal, 2017, 12, 1600401.	3.5	37
92	The effect of anti-CD133/fucoidan bio-coatings on hemocompatibility and EPC capture. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 2066-2081.	3.5	20
93	Multiphoton Fabrication of Fibronectin-Functionalized Protein Micropatterns: Stiffness-Induced Maturation of Cellâ€“Matrix Adhesions in Human Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2017, 9, 29469-29480.	8.0	13
94	Chirality-mediated enhancement of nitric oxide release and regulation of endothelial cells behaviors by cystine immobilization on Tiâ€“O films. RSC Advances, 2017, 7, 27272-27280.	3.6	4
95	Improve matching ability of stent and balloon via preparing nano-structure by low-temperature plasma treatment. Integrated Ferroelectrics, 2017, 179, 24-30.	0.7	2
96	Multiphoton photochemical crosslinking-based fabrication of protein micropatterns with controllable mechanical properties for single cell traction force measurements. Scientific Reports, 2016, 6, 20063.	3.3	26
97	Construction of a fucoidan/laminin functional multilayer to direction vascular cell fate and promotion hemocompatibility. Materials Science and Engineering C, 2016, 64, 236-242.	7.3	12
98	Controlling mesenchymal stem cells differentiate into contractile smooth muscle cells on a TiO2 micro/nano interface: Towards benign pericytes environment for endothelialization. Colloids and Surfaces B: Biointerfaces, 2016, 145, 410-419.	5.0	33
99	Dopamine-assisted deposition of poly (ethylene imine) for efficient heparinization. Colloids and Surfaces B: Biointerfaces, 2016, 144, 90-98.	5.0	33
100	Mechanical response of cardiovascular stents under vascular dynamic bending. BioMedical Engineering OnLine, 2016, 15, 21.	2.7	33
101	Stability research on polydopamine and immobilized albumin on 316L stainless steel. International Journal of Energy Production and Management, 2016, 3, 277-284.	3.7	11
102	Improving hemocompatibility and accelerating endothelialization of vascular stents by a copper-titanium film. Materials Science and Engineering C, 2016, 69, 1175-1182.	7.3	21
103	Multifunctional mussel-inspired copolymerized epigallocatechin gallate (EGCG)/arginine coating: the potential as an ad-layer for vascular materials. International Journal of Energy Production and Management, 2016, 3, 247-255.	3.7	5
104	Influence of chirality on catalytic generation of nitric oxide and platelet behavior on selenocystine immobilized TiO2 films. Colloids and Surfaces B: Biointerfaces, 2016, 145, 122-129.	5.0	20
105	Layer-by-layer self-assembled laminin/fucoidan films: towards better hemocompatibility and endothelialization. RSC Advances, 2016, 6, 56048-56055.	3.6	10
106	Investigation of enhanced hemocompatibility and tissue compatibility associated with multi-functional coating based on hyaluronic acid and Type IV collagen. International Journal of Energy Production and Management, 2016, 3, 149-157.	3.7	26
107	Effect of wafer size on the film internal stress measurement by wafer curvature method. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 93-99.	1.0	15
108	Controlling the corrosion rate and behavior of biodegradable magnesium by a surface-immobilized ultrathin 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP) film. RSC Advances, 2016, 6, 15247-15259.	3.6	28

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109	Immobilization of serum albumin and peptide aptamer for EPC on polydopamine coated titanium surface for enhanced in-situ self-endothelialization. Materials Science and Engineering C, 2016, 60, 219-229.	7.3	35
110	Facile immobilization of vascular endothelial growth factor on a tannic acid-functionalized plasma-polymerized allylamine coating rich in quinone groups. RSC Advances, 2016, 6, 17188-17195.	3.6	23
111	Analysis of Flow Field in Mechanical Aortic Bileaflet Heart Valves Using Finite Volume Method. Journal of Medical and Biological Engineering, 2016, 36, 110-120.	1.8	9
112	Constructing bio-layer of heparin and type IV collagen on titanium surface for improving its endothelialization and blood compatibility. Journal of Materials Science: Materials in Medicine, 2016, 27, 81.	3.6	19
113	Improvement of corrosion resistance and biocompatibility of biodegradable metallic vascular stent via plasma allylamine polymerized coating. Materials and Design, 2016, 96, 341-349.	7.0	28
114	Flow-induced corrosion of absorbable magnesium alloy: In-situ and real-time electrochemical study. Corrosion Science, 2016, 104, 277-289.	6.6	79
115	Multifunctional Coating Based on Hyaluronic Acid and Dopamine Conjugate for Potential Application on Surface Modification of Cardiovascular Implanted Devices. ACS Applied Materials & Interfaces, 2016, 8, 109-121.	8.0	132
116	Development of nitric oxide catalytic coatings by conjugating 3,3-disulfodipropionic acid and 3,3-diselenodipropionic acid for improving hemocompatibility. Biointerphases, 2015, 10, 04A303.	1.6	9
117	Effects of ECAE processing temperature on the microstructure, mechanical properties, and corrosion behavior of pure Mg. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 639-647.	4.9	20
118	Design and construction of TiO ₂ nanotubes in microarray using twoâ€step anodic oxidation for application of cardiovascular implanted devices. Micro and Nano Letters, 2015, 10, 287-291.	1.3	24
119	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. Biochemical and Biophysical Research Communications, 2015, 456, 555-561.	2.1	27
120	Cooperative control of blood compatibility and re-endothelialization by immobilized heparin and substrate topography. Acta Biomaterialia, 2015, 15, 150-163.	8.3	45
121	Immobilization of DNA aptamers via plasma polymerized allylamine film to construct an endothelial progenitor cell-capture surface. Colloids and Surfaces B: Biointerfaces, 2015, 126, 70-79.	5.0	42
122	Tailoring of the titanium surface by preparing cardiovascular endothelial extracellular matrix layer on the hyaluronic acid micro-pattern for improving biocompatibility. Colloids and Surfaces B: Biointerfaces, 2015, 128, 201-210.	5.0	43
123	Constructing bio-functional layers of hyaluronan and type IV collagen on titanium surface for improving endothelialization. Journal of Materials Science, 2015, 50, 3226-3236.	3.7	24
124	Copper-Incorporated Collagen/Catechol Film for in Situ Generation of Nitric Oxide. ACS Biomaterials Science and Engineering, 2015, 1, 771-779.	5.2	30
125	Multifunctional Plasma-Polymerized Film: Toward Better Anticorrosion Property, Enhanced Cellular Growth Ability, and Attenuated Inflammatory and Histological Responses. ACS Biomaterials Science and Engineering, 2015, 1, 513-524.	5.2	13
126	Nitric oxide producing coating mimicking endothelium function for multifunctional vascular stents. Biomaterials, 2015, 63, 80-92.	11.4	162

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127	Application Of Phenol/Amine Copolymerized Film Modified Magnesium Alloys: Anticorrosion And Surface Biofunctionalization. ACS Applied Materials & Interfaces, 2015, 7, 24510-24522.	8.0	61
128	Absorbable magnesium-based stent: physiological factors to consider for in vitro degradation assessments. International Journal of Energy Production and Management, 2015, 2, 59-69.	3.7	37
129	Effect of micropatterned TiO2 nanotubes thin film on the deposition of endothelial extracellular matrix: For the purpose of enhancing surface biocompatibility. Biointerphases, 2015, 10, 04A302.	1.6	22
130	Real-Time Characterization of Fibrinogen Interaction with Modified Titanium Dioxide Film by Quartz Crystal Microbalance with Dissipation. Chinese Journal of Chemical Physics, 2014, 27, 355-360.	1.3	2
131	Studies Based on Preparation, Physical Characteristics, and Cellular Pharmacological Activities of Thin PLGA Film Loaded with Geniposide. Evidence-based Complementary and Alternative Medicine, 2014, 2014, 1-8.	1.2	0
132	New strategies for developing cardiovascular stent surfaces with novel functions (Review). Biointerphases, 2014, 9, 029017.	1.6	19
133	A simple one-step modification of various materials for introducing effective multi-functional groups. Colloids and Surfaces B: Biointerfaces, 2014, 113, 125-133.	5.0	65
134	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. Acta Biomaterialia, 2014, 10, 1940-1954.	8.3	126
135	Cell adhesion on supported lipid bilayers functionalized with RGD peptides monitored by using a quartz crystal microbalance with dissipation. Colloids and Surfaces B: Biointerfaces, 2014, 116, 459-464.	5.0	19
136	Effects of polydopamine functionalized titanium dioxide nanotubes on endothelial cell and smooth muscle cell. Colloids and Surfaces B: Biointerfaces, 2014, 116, 553-560.	5.0	43
137	â€œMixed-charge Self-Assembled Monolayersâ€•as A Facile Method to Design pH-induced Aggregation of Large Gold Nanoparticles for Near-Infrared Photothermal Cancer Therapy. ACS Applied Materials & Interfaces, 2014, 6, 18930-18937.	8.0	49
138	Gallic acid and gallic acid-loaded coating involved in selective regulation of platelet, endothelial and smooth muscle cell fate. RSC Advances, 2014, 4, 212-221.	3.6	15
139	Polydopamine-mediated long-term elution of the direct thrombin inhibitor bivalirudin from TiO₂nanotubes for improved vascular biocompatibility. Journal of Materials Chemistry B, 2014, 2, 6767-6778.	5.8	34
140	Mussel-Inspired One-Step Adherent Coating Rich in Amine Groups for Covalent Immobilization of Heparin: Hemocompatibility, Growth Behaviors of Vascular Cells, and Tissue Response. ACS Applied Materials & Interfaces, 2014, 6, 14608-14620.	8.0	115
141	Directing Vascular Cell Selectivity and Hemocompatibility on Patterned Platforms Featuring Variable Topographic Geometry and Size. ACS Applied Materials & Interfaces, 2014, 6, 12062-12070.	8.0	52
142	Flow-induced corrosion behavior of absorbable magnesium-based stents. Acta Biomaterialia, 2014, 10, 5213-5223.	8.3	114
143	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. ACS Applied Materials & Interfaces, 2014, 6, 2647-2656.	8.0	44
144	Facile conjugation of heparin onto titanium surfaces via dopamine inspired coatings for improving blood compatibility. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 832-840.	1.0	8

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145	Carbon-Doped Titanium Oxide Films by DC Reactive Magnetron Sputtering Using CO2 and O2 as Reactive Gas. Acta Metallurgica Sinica (English Letters), 2014, 27, 239-244.	2.9	9
146	Multidentate Polyethylene Glycol Modified Gold Nanorods for in Vivo Near-Infrared Photothermal Cancer Therapy. ACS Applied Materials & Interfaces, 2014, 6, 5657-5668.	8.0	94
147	The effect of full/partial UV-irradiation of TiO 2 films on altering the behavior of fibrinogen and platelets. Colloids and Surfaces B: Biointerfaces, 2014, 122, 709-718.	5.0	21
148	A novel coating of type IV collagen and hyaluronic acid on stent material-titanium for promoting smooth muscle cell contractile phenotype. Materials Science and Engineering C, 2014, 38, 235-243.	7.3	52
149	Constructing Biomimic Catalytic Coating with Controlled Nitric Oxide Release Properties by Immobilizing 3,3-Diselenodipropionic Acid on Plasma Polymerized Allylamine Film. Plasma Processes and Polymers, 2014, 11, 952-960.	3.0	8
150	Fabrication of microâ€patterned titanium dioxide nanotubes thin film and its biocompatibility. Journal of Engineering, 2014, 2014, 665-671.	1.1	9
151	Efficient Preparation of Enantiopure D-Phenylalanine through Asymmetric Resolution Using Immobilized Phenylalanine Ammonia-Lyase from Rhodotorula glutinis JN-1 in a Recirculating Packed-Bed Reactor. PLoS ONE, 2014, 9, e108586.	2.5	27
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