

Rifang Luo

List of Publications by Year in descending order

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53
papers

2,474
citations

186265

28
h-index

197818

49
g-index

55
all docs

55
docs citations

55
times ranked

2729
citing authors

#	ARTICLE	IF	CITATIONS
1	The covalent immobilization of heparin to pulsed-plasma polymeric allylamine films on 316L stainless steel and the resulting effects on hemocompatibility. <i>Biomaterials</i> , 2010, 31, 2072-2083.	11.4	196
2	In Vitro Investigation of Enhanced Hemocompatibility and Endothelial Cell Proliferation Associated with Quinone-Rich Polydopamine Coating. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1704-1714.	8.0	179
3	Dual-responsive injectable hydrogels encapsulating drug-loaded micelles for on-demand antimicrobial activity and accelerated wound healing. <i>Journal of Controlled Release</i> , 2020, 324, 204-217.	9.9	145
4	Improved immobilization of biomolecules to quinone-rich polydopamine for efficient surface functionalization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 106, 66-73.	5.0	142
5	Mussel-Inspired Coating of Polydopamine Directs Endothelial and Smooth Muscle Cell Fate for Re-endothelialization of Vascular Devices. <i>Advanced Healthcare Materials</i> , 2012, 1, 548-559.	7.6	128
6	Synergistic Chemical and Photodynamic Antimicrobial Therapy for Enhanced Wound Healing Mediated by Multifunctional Light-Responsive Nanoparticles. <i>Biomacromolecules</i> , 2019, 20, 4581-4592.	5.4	104
7	Immobilization of nano Cu-MOFs with polydopamine coating for adaptable gasotransmitter generation and copper ion delivery on cardiovascular stents. <i>Biomaterials</i> , 2019, 204, 36-45.	11.4	104
8	Peptide-/Drug-Directed Self-Assembly of Hybrid Polyurethane Hydrogels for Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37147-37155.	8.0	81
9	pH-sensitive doxorubicin-conjugated prodrug micelles with charge-conversion for cancer therapy. <i>Acta Biomaterialia</i> , 2018, 70, 186-196.	8.3	79
10	Superhydrophilic versus normal polydopamine coating: A superior and robust platform for synergistic antibacterial and antithrombotic properties. <i>Chemical Engineering Journal</i> , 2020, 402, 126196.	12.7	78
11	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
12	Green Tea Polyphenol Induced Mg ²⁺ -rich Multilayer Conversion Coating: Toward Enhanced Corrosion Resistance and Promoted in Situ Endothelialization of AZ31 for Potential Cardiovascular Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41165-41177.	8.0	65
13	Epigallocatechin gallate mediated sandwich-like coating for mimicking endothelium with sustained therapeutic nitric oxide generation and heparin release. <i>Biomaterials</i> , 2021, 269, 120418.	11.4	61
14	A tailored extracellular matrix (ECM) - Mimetic coating for cardiovascular stents by stepwise assembly of hyaluronic acid and recombinant human type III collagen. <i>Biomaterials</i> , 2021, 276, 121055.	11.4	58
15	Construction of mussel-inspired coating via the direct reaction of catechol and polyethyleneimine for efficient heparin immobilization. <i>Applied Surface Science</i> , 2015, 328, 163-169.	6.1	56
16	Catechol/polyethyleneimine conversion coating with enhanced corrosion protection of magnesium alloys: potential applications for vascular implants. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6936-6949.	5.8	49
17	Micelle-Embedded Layer-by-Layer Coating with Catechol and Phenylboronic Acid for Tunable Drug Loading, Sustained Release, Mild Tissue Response, and Selective Cell Fate for Re-endothelialization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10337-10350.	8.0	48
18	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

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19	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
20	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
21	Heart Valves Cross-Linked with Erythrocyte Membrane Drug-Loaded Nanoparticles as a Biomimetic Strategy for Anti-coagulation, Anti-inflammation, Anti-calcification, and Endothelialization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41113-41126.	8.0	40
22	Polycaprolactone vascular graft with epigallocatechin gallate embedded sandwiched layer-by-layer functionalization for enhanced antithrombogenicity and anti-inflammation. <i>Journal of Controlled Release</i> , 2020, 320, 226-238.	9.9	39
23	Coaxial electrospinning multicomponent functional controlled-release vascular graft: Optimization of graft properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 432-439.	5.0	37
24	A robust mussel-inspired zwitterionic coating on biodegradable poly(L-lactide) stent with enhanced anticoagulant, anti-inflammatory, and anti-hyperplasia properties. <i>Chemical Engineering Journal</i> , 2022, 427, 130910.	12.7	36
25	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
26	Dopamine-assisted deposition of poly (ethylene imine) for efficient heparinization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 90-98.	5.0	33
27	A Polyphenol-Network-Mediated Coating Modulates Inflammation and Vascular Healing on Vascular Stents. <i>ACS Nano</i> , 2022, 16, 6585-6597.	14.6	33
28	Catechol-mediated and copper-incorporated multilayer coating: An endothelium-mimetic approach for blood-contacting devices. <i>Journal of Controlled Release</i> , 2020, 321, 59-70.	9.9	32
29	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
30	A conformally adapted all-in-one hydrogel coating: towards robust hemocompatibility and bactericidal activity. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2697-2708.	5.8	30
31	A thrombin-triggered self-regulating anticoagulant strategy combined with anti-inflammatory capacity for blood-contacting implants. <i>Science Advances</i> , 2022, 8, eabm3378.	10.3	28
32	Dressing Blood-Contacting Materials by a Stable Hydrogel Coating with Embedded Antimicrobial Peptides for Robust Antibacterial and Antithrombus Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38947-38958.	8.0	26
33	Platelet Membrane-Coated Nanocarriers Targeting Plaques to Deliver Anti-CD47 Antibody for Atherosclerotic Therapy. <i>Research</i> , 2022, 2022, 9845459.	5.7	23
34	Phosphorylcholine- and cation-bearing copolymer coating with superior antibiofilm and antithrombotic properties for blood-contacting devices. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8433-8443.	5.8	22
35	Fabrication of endothelial progenitor cell capture surface via DNA aptamer modifying dopamine/polyethyleneimine copolymer film. <i>Applied Surface Science</i> , 2016, 386, 138-150.	6.1	21
36	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

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37	Bionic Tea Stain-Resistant Nanoparticle Coating for Biocompatible Corrosion Protection. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900899.	3.7	20
38	A multi-in-one strategy with glucose-triggered long-term antithrombogenicity and sequentially enhanced endothelialization for biological valve leaflets. <i>Biomaterials</i> , 2021, 275, 120981.	11.4	20
39	A Novel Technique Toward Bipolar Films Containing Alternating Nano-Layers of Allylamine and Acrylic Acid Plasma Polymers for Biomedical Application. <i>Plasma Processes and Polymers</i> , 2011, 8, 208-214.	3.0	19
40	Electrospun silk fibroin/poly (L-lactide- μ -caplacton) graft with platelet-rich growth factor for inducing smooth muscle cell growth and infiltration. <i>International Journal of Energy Production and Management</i> , 2016, 3, 239-245.	3.7	19
41	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
42	Platelet Adhesion and Activation on Chiral Surfaces: The Influence of Protein Adsorption. <i>Langmuir</i> , 2017, 33, 10402-10410.	3.5	16
43	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
44	Nanoparticles-stacked superhydrophilic coating supported synergistic antimicrobial ability for enhanced wound healing. <i>Materials Science and Engineering C</i> , 2022, 132, 112535.	7.3	14
45	The biological responses and mechanisms of endothelial cells to magnesium alloy. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab017.	3.7	13
46	Proliferation and functionality of human umbilical vein endothelial cells on angiopoietin-1 immobilized 316L stainless steel. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8717-8728.	5.8	12
47	A honokiol-mediated robust coating for blood-contacting devices with anti-inflammatory, antibacterial and antithrombotic properties. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9770-9783.	5.8	12
48	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
49	Vascular cell responses to ECM produced by smooth muscle cells on TiO ₂ nanotubes. <i>Applied Surface Science</i> , 2015, 349, 589-598.	6.1	9
50	Ag-Incorporated Polydopamine/Tannic Acid Coating on Titanium With Enhanced Cytocompatible and Antibacterial Properties. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 877738.	4.1	7
51	Yes-associated protein contributes to magnesium alloy-derived inflammation in endothelial cells. <i>International Journal of Energy Production and Management</i> , 2022, 9, rbac002.	3.7	6
52	Multifunctional mussel-inspired copolymerized epigallocatechin gallate (EGCG)/arginine coating: the potential as an ad-layer for vascular materials. <i>International Journal of Energy Production and Management</i> , 2016, 3, 247-255.	3.7	5
53	Bioprosthetic heart valves™ structural integrity improvement through exogenous amino donor treatments. <i>Journal of Materials Research</i> , 2018, 33, 2576-2585.	2.6	4