Ping Yang

List of Publications by Year
in descending order

111 papers	1,979 citations	236925 25 h-index	315739 38 g-index
114 all docs	114 docs citations	114 times ranked	2645 citing authors

#	Article	IF	Citations
1	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
2	Immobilization of nano Cu-MOFs with polydopamine coating for adaptable gasotransmitter generation and copper ion delivery on cardiovascular stents. Biomaterials, 2019, 204, 36-45.	11.4	104
3	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
4	Role of C/EBP homologous protein and endoplasmic reticulum stress in asthma exacerbation by regulating the IL-4/signal transducer and activator of transcription 6/transcription factor EC/IL-4 receptor Iˆ positive feedback loop in M2 macrophages. Journal of Allergy and Clinical Immunology, 2017, 140, 1550-1561.e8.	2.9	69
5	Blockade of JAK2 protects mice against hypoxiaâ€induced pulmonary arterial hypertension by repressing pulmonary arterial smooth muscle cell proliferation. Cell Proliferation, 2020, 53, e12742.	5.3	56
6	Hybrid Inductive-Power-Transfer Battery Chargers for Electric Vehicle Onboard Charging With Configurable Charging Profile. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 592-599.	8.0	54
7	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
8	Highâ€efficiency twoâ€switch triâ€state buckâ€“boost power factor correction converter with fast dynamic response and lowâ€inductor current ripple. IET Power Electronics, 2013, 6, 1544-1554.	2.1	48
9	A single-switch high gain quadratic boost converter based on voltage-lift-technique. , 2012, , .		46
10	Chronic inflammation aggravates metabolic disorders of hepatic fatty acids in high-fat diet-induced obese mice. Scientific Reports, 2015, 5, 10222.	3.3	45
11	Variable Duty Cycle Control for Quadratic Boost PFC Converter. IEEE Transactions on Industrial Electronics, 2016, 63, 4222-4232.	7.9	44
12	Loss of ubiquitin-conjugating enzyme E2 (Ubc9) in macrophages exacerbates multiple low-dose streptozotocin-induced diabetes by attenuating M2 macrophage polarization. Cell Death and Disease, 2019, 10, 892.	6.3	44
13	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
14	Rheological Properties of Municipal Sewage Sludge: Dependency on Solid Concentration and Temperature. Procedia Environmental Sciences, 2016, 31, 113-121.	1.4	39
15	An Injectable Nanocomposite Hydrogel for Potential Application of Vascularization and Tissue Repair. Annals of Biomedical Engineering, 2020, 48, 1511-1523.	2.5	39
16	Cluster of Differentiation 36 Deficiency Aggravates Macrophage Infiltration and Hepatic Inflammation by Upregulating Monocyte Chemotactic Protein-1 Expression of Hepatocytes Through Histone Deacetylase 2-Dependent Pathway. Antioxidants and Redox Signaling, 2017, 27, 201-214.	5.4	38
17	Rapamycin-mediated CD36 translational suppression contributes to alleviation of hepatic steatosis. Biochemical and Biophysical Research Communications, 2014, 447, 57-63.	2.1	37
18	Loss of Mbd2 Protects Mice Against High-Fat Dietâ€“Induced Obesity and Insulin Resistance by Regulating the Homeostasis of Energy Storage and Expenditure. Diabetes, 2016, 65, 3384-3395.	0.6	34

#	Article	IF	Citations
19	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
20	Aging and stress induced Î² cell senescence and its implication in diabetes development. Aging, 2019, 11, 9947-9959.	3.1	33
21	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
22	A new quadratic boost converter with high voltage step-up ratio and reduced voltage stress. , 2012, , .		31
23	Obesity induces preadipocyte CD36 expression promoting inflammation via the disruption of lysosomal calcium homeostasis and lysosome function. EBioMedicine, 2020, 56, 102797.	6.1	31
24	Inflammatory Stress Increases Hepatic CD36 Translational Efficiency via Activation of the mTOR Signalling Pathway. PLoS ONE, 2014, 9, e103071.	2.5	30
25	An injectable scaffold based on temperatureâ€responsive hydrogel and factorâ€loaded nanoparticles for application in vascularization in tissue engineering. Journal of Biomedical Materials Research - Part A, 2019, 107, 2123-2134.	4.0	28
26	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
27	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
28	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
29	Endoplasmic reticulum stress, a new wrestler, in the pathogenesis of idiopathic pulmonary fibrosis. American Journal of Translational Research (discontinued), 2017, 9, 722-735.	0.0	26
30	Photo-functionalized TiO2 nanotubes decorated with multifunctional Ag nanoparticles for enhanced vascular biocompatibility. Bioactive Materials, 2021, 6, 45-54.	15.6	25
31	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
32	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
33	A High Efficiency LCC-S Compensated WPT System With Dual Decoupled Receive Coils and Cascaded PWM Regulator. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3142-3146.	3.0	23
34	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
35	The Reduction in the IgE-Binding Ability of Î²-Lactoglobulin by Dynamic High-Pressure Microfluidization Coupled with Glycation Treatment Revealed by High-Resolution Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2017, 65, 6179-6187.	5.2	22
36	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

#	Article	IF	Citations
37	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
38	HMGB1 exacerbates bronchiolitis obliterans syndrome via RAGE/NF-Î¹B/HPSE signaling to enhance latent TGF-Î² release from ECM. American Journal of Translational Research (discontinued), 2016, 8, 1971-84.	0.0	21
39	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
40	Evaluation and Suppression of a Low-Frequency Output Voltage Ripple of a Single-Stage ACâ€“DC Converter Based on an Output Impedance Model. IEEE Transactions on Industrial Electronics, 2019, 66, 2803-2813.	7.9	19
41	Loss of CD36 impairs hepatic insulin signaling by enhancing the interaction of PTP1B with IR. FASEB Journal, 2020, 34, 5658-5672.	0.5	19
42	Intelligent H2S release coating for regulating vascular remodeling. Bioactive Materials, 2021, 6, 1040-1050.	15.6	19
43	Hydrogen sulphide-releasing aspirin enhances cell capabilities of anti-oxidative lesions and anti-inflammation. Medical Gas Research, 2019, 9, 145.	2.3	19
44	Sumoylation Modulates the Susceptibility to Type 1 Diabetes. Advances in Experimental Medicine and Biology, 2017, 963, 299-322.	1.6	18
45	Platelet Adhesion and Activation on Chiral Surfaces: The Influence of Protein Adsorption. Langmuir, 2017, 33, 10402-10410.	3.5	16
46	Paradoxical effect of rapamycin on inflammatory stress-induced insulin resistance in vitro and in vivo. Scientific Reports, 2015, 5, 14959.	3.3	14
47	Photo-immobilized heparin micropatterns on Tiâ€“O surface: preparation, characterization, and evaluation in vitro. Journal of Materials Science, 2011, 46, 6772-6782.	3.7	13
48	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
49	Design of Double-Line-Frequency Ripple Controller for Quasi-Single-Stage ACâ€“DC Converter With Audio Susceptibility Model. IEEE Transactions on Industrial Electronics, 2019, 66, 9226-9237.	7.9	13
50	Quadratic boost PFC converter with fast dynamic response and low output voltage ripple. , 2013, , .		12
51	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
52	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
53	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
54	Theoretical calculation and experimental study of influence of oxygen vacancy on the electronic structure and hemocompatibility of rutile TiO2. Science in China Series D: Earth Sciences, 2009, 52, 2742-2748.	0.9	10

#	Article	IF	Citations
55	Confinement Effect of Graphene Interface on Phase Transition of n-Eicosane: Molecular Dynamics Simulations. Langmuir, 2020, 36, 8422-8434.	3.5	10
56	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
57	The influence of water content on soil erosion in the desertification area of Guizhou, China. Carbonates and Evaporites, 2012, 27, 185-192.	1.0	9
58	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
59	Stability Improvement of Pulse Power Supply With Dual-Inductance Active Storage Unit Using Hysteresis Current Control. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 111-120.	3.6	9
60	Fabrication of microâ€patterned titanium dioxide nanotubes thin film and its biocompatibility. Journal of Engineering, 2014, 2014, 665-671.	1.1	9
61	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
62	Micropatterned immobilization of membrane-mimicking polymer and peptides for regulation of cell behaviorsin vitro. RSC Advances, 2018, 8, 20836-20850.	3.6	7
63	The self-organized differentiation from MSCs into SMCs with manipulated micro/Nano two-scale arrays on TiO2 surfaces for biomimetic construction of vascular endothelial substratum. Materials Science and Engineering C, 2020, 116, 111179.	7.3	7
64	Synthesis and biological evaluation of 8-substituted and deglucuronidated scutellarin and baicalin analogues as antioxidant responsive element activators. Science China Chemistry, 2011, 54, 1565-1575.	8.2	6
65	Biomimetic GelMPC Micropatterns on Titanium and Their Effects on Platelets and Endothelialization. Advanced Engineering Materials, 2018, 20, 1800624.	3.5	6
66	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
67	Low-Cycle Fatigue Crack Propagation Behavior of Cracked Steel Plates Considering Accumulative Plastic Strain. International Journal of Steel Structures, 2020, 20, 538-547.	1.3	6
68	In vitro performance of 3D printed PCLâ^Î²-TCP degradable spinal fusion cage. Journal of Biomaterials Applications, 2021, 35, 1304-1314.	2.4	6
69	Numerical Investigation on Two-Phase Flow Heat Transfer Performance and Instability with Discrete Heat Sources in Parallel Channels. Energies, 2021, 14, 4408.	3.1	6
70	Single-phase two-switch PCCM buck-boost PFC converter with fast dynamic response for universal input voltage. , 2011, , .		5
71	Antithrombogenic investigation and biological behavior of cultured human umbilical vein endothelial cells on Ti-O film. Science in China Series D: Earth Sciences, 2006, 49, 20-28.	0.9	4
72	Decoupling of Airborne Dynamic Bending Deformation Angle and Its Application in the High-Accuracy Transfer Alignment Process. Sensors, 2019, 19, 214.	3.8	4

#	Article	IF	Citations
73	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
74	Current Controlled with Valley Voltage Detection Three-port Converter with Current-Pulsed Load. , 2019, , .		4
75	DC Solid State Circuit Breaker Based On GaN. , 2020, , .		4
76	Dead-zone digital controllers for improved dynamic response over wide load range in tri-state boost PFC converter. , 2010, , .		3
77	Analysis of sensorless peak current mode controlled quadratic boost converter. , 2012, , .		3
78	A Finite Control Set Model Predictive Current Control Scheme for Five-phase PMSMs Based on Optimized Duty Ratio. , 2019, , .		3
79	Peat Properties and Holocene Carbon and Nitrogen Accumulation Rates in a Peatland in the Xinjiang Altai Mountains, Northwestern China. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005615.	3.0	3
80	The mechanical properties of the warp-knitted mesh fabric for protective applications. Journal of the Textile Institute, 0, , 1-12.	1.9	3
81	Residual ultimate strength of ship cracked plates considering fatigue crack propagation under cyclic loads. Ships and Offshore Structures, 2022, 17, 1403-1412.	1.9	3
82	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
83	Biomedical Applications of Plasma and Ion Beam Processing. Journal of the Vacuum Society of Japan, 2008, 51, 81-92.	0.3	3
84	Multi-Input Variable Structure Converter With Optimal Power Extraction Strategy for Energy Harvesting. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 290-300.	3.6	3
85	Significance of different n-alkane biomarker distributions in four same-age peat sequences around the edges of a small maar lake in China. Science of the Total Environment, 2022, 826, 154137.	8.0	3
86	Inhibiting Smooth Muscle Cell Proliferation via Immobilization of Heparin/Fibronectin Complexes on Titanium Surfaces. Biomedical and Environmental Sciences, 2015, 28, 378-82.	0.2	3
87	Preparation of micro-patterned surfaces of Si-N-O films and their influence on adhesion behavior of endothelial cells. Science China Technological Sciences, 2010, 53, 257-263.	4.0	2
88	High-efficiency capacitive idling SEPIC PFC converter with varying reference voltage for wide range of load variations. , 2010, , .		2
89	Voltage-mode controlled switching converter with dual-edge constant off-time modulation. , 2014, , .		2
90	Simulation and Analysis of Flow Field in Sludge Anaerobic Digestion Reactor based on Computational Fluid Dynamics. International Journal of Chemical Reactor Engineering, 2018, 16, .	1.1	2

#	Article	IF	Citations
91	Research on Parallel Operation of Virtual Synchronous Generators in Microgrid. , 2019, , .		2
92	Double-Line Frequency Ripple Suppression of a Quasi-Single Stage ACâ€“DC Converter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2074-2078.	3.0	2
93	Adaptive on Time Controlled Double-Line- Frequency Ripple Suppressor With Fast Dynamic Response and High Efficiency. IEEE Access, 2020, 8, 179692-179701.	4.2	2
94	Mechanical properties of warp-knitted metal mesh fabric under biaxial tension loading. Textile Reseach Journal, 2021, 91, 1368-1379.	2.2	2
95	Design and Optimization of the Circulatory Cell-Driven Drug Delivery Platform. Stem Cells International, 2021, 2021, 1-21.	2.5	2
96	Enhanced Hemocompatibility of Silver Nanoparticles Using the Photocatalytic Properties of Titanium Dioxide. Frontiers in Bioengineering and Biotechnology, 2022, 10, 855471.	4.1	2
97	Tri-state boost PFC converter with high input power factor. , 2012, , .		1
98	DCM Low Frequency Oscillation in valley V2 Controlled Boost Converter. , 2019, , .		1
99	Chemical Constituents of Litsea szemaois. Chemistry of Natural Compounds, 2020, 56, 942-944.	0.8	1
100	Successional patterns of bacterial communities and their functions in shrimp aquaculture pond water across farming phases. Aquaculture Research, 0, , .	1.8	1
101	Synthesis and Analysis of Power Management Units for IoT Applications. , 2020, , .		1
102	Effects of Coupled-/soluble-Copper, Generating from Copper-doped Titanium Dioxide Nanotubes on Cell Response. Recent Patents on Nanotechnology, 2023, 17, 150-158.	1.3	1
103	Multifunctional Baicalin-Modified Contact Lens for Preventing Infection, Regulating the Ocular Surface Microenvironment and Promoting Corneal Repair. Frontiers in Bioengineering and Biotechnology, 2022, 10, 855022.	4.1	1
104	Interaction between heparin and fibronectin: Using quartz crystal microbalance with dissipation, immunochemistry and isothermal titration calorimetry. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 1074-1084.	1.0	0
105	Nonlinear modulation for voltage-mode controlled switching converters with fast input transient performance. , 2016, , .		0
106	Discrete-Time Modeling and Stability Analysis of Peak-Current-Mode Controlled Buck Converter with Constant Current Load. , 2018, , .		0
107	Research On Sychronverter-based Regenerative Braking Energy Feedback System of Urban rail Trains. , 2019, , .		0
108	Copper and Zinc Co-doped Titanium Dioxide Nanotubes Arrays on Controlling Nitric Oxide Releasing and Regulating the Inflammatory Responses for Cardiovascular Biomaterials. Recent Patents on Nanotechnology, 2021, 15, .	1.3	0

#	Article	IF	Citations
109	Stability analysis of external ramp compensation on valley V2 controlled boost converter. , 2019, , .		0
110	Research on Power Electronic Transformers Based on Virtual Synchronous Machine Control. , 2020, , .		0
111	Withdrawal Notice: Circulatory Cells as Tumortropic Carrier for Targetability Improvement. Current Drug Delivery, 2020, 17, .	1.6	0