

Jae Ho Shin

List of Publications by Year in descending order

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40
papers

2,010
citations

331670

21
h-index

289244

40
g-index

40
all docs

40
docs citations

40
times ranked

2916
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial Fluorinated Silica Colloid Superhydrophobic Surfaces. <i>Langmuir</i> , 2011, 27, 9597-9601.	3.5	286
2	Recent developments in nanostructure based electrochemical glucose sensors. <i>Talanta</i> , 2016, 149, 30-42.	5.5	238
3	Electrochemical Aptasensor of Cardiac Troponin I for the Early Diagnosis of Acute Myocardial Infarction. <i>Analytical Chemistry</i> , 2015, 87, 9869-9875.	6.5	202
4	Synthesis of Nitric Oxide-Releasing Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 4612-4619.	13.7	192
5	Inorganic/Organic Hybrid Silica Nanoparticles as a Nitric Oxide Delivery Scaffold. <i>Chemistry of Materials</i> , 2008, 20, 239-249.	6.7	98
6	Fluorinated Xerogel-Derived Microelectrodes for Amperometric Nitric Oxide Sensing. <i>Analytical Chemistry</i> , 2008, 80, 6850-6859.	6.5	91
7	NONOatesâ€™ Polyethyleneimine Hydrogel for Controlled Nitric Oxide Release and Cell Proliferation Modulation. <i>Bioconjugate Chemistry</i> , 2011, 22, 1031-1038.	3.6	72
8	Solvent-Processible Polymer Membrane-Based Liquid Junction-Free Reference Electrode. <i>Analytical Chemistry</i> , 1998, 70, 3377-3383.	6.5	69
9	Nitric Oxide-Releasing Solâ€™ Gel Particle/Polyurethane Glucose Biosensors. <i>Analytical Chemistry</i> , 2004, 76, 4543-4549.	6.5	68
10	A Planar Amperometric Creatinine Biosensor Employing an Insoluble Oxidizing Agent for Removing Redox-Active Interferences. <i>Analytical Chemistry</i> , 2001, 73, 5965-5971.	6.5	61
11	Improving the biocompatibility of in vivo sensors via nitric oxide release. <i>Analyst, The</i> , 2006, 131, 609.	3.5	60
12	Solâ€™ Gel Derived Amperometric Nitric Oxide Microsensor. <i>Analytical Chemistry</i> , 2005, 77, 3494-3501.	6.5	51
13	Inactivation of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> on contaminated perilla leaves by Dielectric Barrier Discharge (DBD) plasma treatment. <i>Archives of Biochemistry and Biophysics</i> , 2018, 643, 32-41.	3.0	47
14	Prolonged Release Period of Nitric Oxide Gas for Treatment of Bacterial Keratitis by Amine-Rich Polymer Decoration of Nanoparticles. <i>Chemistry of Materials</i> , 2018, 30, 8528-8537.	6.7	44
15	Enhanced Serum Carbon Dioxide Measurements with a Silicone Rubber-Based Carbonate Ion-Selective Electrode and a High-pH Dilution Buffer. <i>Analytical Chemistry</i> , 1996, 68, 221-225.	6.5	39
16	A review on the latest developments in nanostructure-based electrochemical sensors for glutathione. <i>Analytical Methods</i> , 2016, 8, 1745-1754.	2.7	36
17	ISFET-Based Differential pCO ₂ Sensors Employing a Low-Resistance Gas-Permeable Membrane. <i>Analytical Chemistry</i> , 1996, 68, 3166-3172.	6.5	35
18	S-Nitrosoglutathione loaded poly(lactic-co-glycolic acid) microparticles for prolonged nitric oxide release and enhanced healing of methicillin-resistant <i>Staphylococcus aureus</i> -infected wounds. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 132, 94-102.	4.3	33

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19	Superhydrophobic nitric oxide-releasing xerogels. <i>Acta Biomaterialia</i> , 2014, 10, 3442-3448.	8.3	30
20	A novel and highly sensitive electrochemical monitoring platform for 4-nitrophenol on MnO ₂ nanoparticles modified graphene surface. <i>RSC Advances</i> , 2015, 5, 88996-89002.	3.6	30
21	Identification and functional analysis of endogenous nitric oxide in a filamentous fungus. <i>Scientific Reports</i> , 2016, 6, 30037.	3.3	26
22	Production of Size Controlled Aluminum and Alumina Nanoparticles via Pulsed Laser Ablation in Water. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8900-8903.	0.9	21
23	Dynamics of nitric oxide level in liquids treated with microwave plasma-generated gas and their effects on spinach development. <i>Scientific Reports</i> , 2019, 9, 1011.	3.3	18
24	Optimization of Saliva Collection and Immunochromatographic Detection of Salivary Pepsin for Point-of-Care Testing of Laryngopharyngeal Reflux. <i>Sensors</i> , 2020, 20, 325.	3.8	17
25	Characterization of Epoxy Resin-Based Anion-Responsive Polymers: Applicability to Chloride Sensing in Physiological Samples. <i>Analytical Chemistry</i> , 2004, 76, 4217-4222.	6.5	16
26	Carbon Nanotube-Based Ion-Sensitive Field-Effect Transistors with an On-Chip Reference Electrode Toward Wearable Sodium Sensing. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2580-2588.	4.3	16
27	Simultaneous, real-time measurement of nitric oxide and oxygen dynamics during cardiac ischemia-reperfusion of the rat utilizing sol-gel-derived electrochemical microsensors. <i>Analytica Chimica Acta</i> , 2013, 802, 74-81.	5.4	13
28	Biodegradable hyaluronic acid-based, nitric oxide-releasing nanofibers for potential wound healing applications. <i>Biomaterials Science</i> , 2021, 9, 8160-8170.	5.4	13
29	A Planar pCO ₂ Sensor with Enhanced Electrochemical Properties. <i>Analytical Chemistry</i> , 2000, 72, 4468-4473.	6.5	12
30	Potential protective effects of fermented garlic extract on myocardial ischemia-reperfusion injury utilizing in vitro and ex vivo models. <i>Journal of Functional Foods</i> , 2017, 33, 278-285.	3.4	11
31	Potential Protective Effect of Nitric Oxide-Releasing Nanofibers in Hypoxia/Reoxygenation-Induced Cardiomyocyte Injury. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6539-6545.	0.9	11
32	Real time measurement of myocardial oxygen dynamics during cardiac ischemia-reperfusion of rats. <i>Analyst</i> , 2012, 137, 5312.	3.5	10
33	Watching the growth of aluminum hydroxide nanoparticles from aluminum nanoparticles synthesized by pulsed laser ablation in aqueous surfactant solution. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	10
34	Effects of prostaglandin E1 on nitric oxide and oxygen dynamics during rat myocardial ischemia-reperfusion utilizing sol-gel derived microsensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 245-251.	7.8	7
35	Conceptual Study for Tissue-Regenerative Biodegradable Magnesium Implant Integrated with Nitric Oxide-Releasing Nanofibers. <i>Metals and Materials International</i> , 2019, 25, 1098-1107.	3.4	7
36	Real time dynamics of nitric oxide during cardiac ischemia-reperfusion of the rat. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 480-485.	7.8	6

#	ARTICLE	IF	CITATIONS
37	Non-thermal plasma promotes hair growth by improving the inter-follicular macroenvironment. RSC Advances, 2021, 11, 27880-27896.	3.6	5
38	Unexpected catalytic behavior of core-satellite gold nanostructures towards electroreduction of oxygen. Electrochemistry Communications, 2017, 78, 1-5.	4.7	4
39	Delivery of nitric oxide-releasing silica nanoparticles for in vivo revascularization and functional recovery after acute peripheral nerve crush injury. Neural Regeneration Research, 2022, 17, 2043.	3.0	4
40	Efficacy of Nitric Oxide-Releasing Nanofibers in Reducing Renal Ischemia-Reperfusion Injury in a Rat Model. Annals of Transplantation, 2022, 27, e934800.	0.9	1