

Rahim Rahimi

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,258
citations

279487

23
h-index

223531

46
g-index

61
all docs

61
docs citations

61
times ranked

2873
citing authors

#	ARTICLE	IF	CITATIONS
1	Steady-State and Transient Performance of Ion-Sensitive Electrodes Suitable for Wearable and Implantable Electro-Chemical Sensing. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 96-107.	2.5	11
2	Wireless Humidity Sensor for Smart Packaging via One-Step Laser-Induced Patterning and Nanoparticle Formation on Metallized Paper. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	23
3	Low-Cost Flexible Glass-Based pH Sensor via Cold Atmospheric Plasma Deposition. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9697-9710.	4.0	16
4	Printed Low-Cost PEDOT:PSS/PVA Polymer Composite for Radiation Sterilization Monitoring. <i>ACS Sensors</i> , 2022, 7, 960-971.	4.0	24
5	Laser-Assisted Nanotexturing and Silver Immobilization on Titanium Implant Surfaces to Enhance Bone Cell Mineralization and Antimicrobial Properties. <i>Langmuir</i> , 2022, 38, 4014-4027.	1.6	13
6	Electrochemical sensor for rapid detection of fentanyl using laser-induced porous carbon-electrodes. <i>Mikrochimica Acta</i> , 2022, 189, 198.	2.5	18
7	A wireless chipless printed sensor tag for real-time radiation sterilization monitoring. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9813-9822.	2.7	10
8	Correlated Effects of Radiation and Hot Carrier Degradation on the Performance of LDMOS Transistors. , 2022, , .		2
9	A biodegradable chipless sensor for wireless subsoil health monitoring. <i>Scientific Reports</i> , 2022, 12, 8011.	1.6	22
10	A Biodegradable Hybrid Micro/Nano Conductive Zinc Paste for Paper-Based Flexible Bioelectronics. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	16
11	Improved performance of printed electrochemical sensors via cold atmospheric plasma surface modification. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10562-10573.	2.7	10
12	A Wireless Implantable Passive Intra-Abdominal Pressure Sensing Scheme via Ultrasonic Imaging of a Microfluidic Device. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 747-758.	2.5	13
13	Laser-induced atmospheric Cu ₂ O formation on copper surface with enhanced electrochemical performance for non-enzymatic glucose sensing. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14997-15010.	2.7	16
14	Battery-Less Wireless Chipless Sensor Tag for Subsoil Moisture Monitoring. <i>IEEE Sensors Journal</i> , 2021, 21, 6071-6082.	2.4	20
15	Noninvasive assessment of microbial activity by realtime monitoring degradation of cellulose acetate via electrochemical impedance measurement. <i>Sensors and Actuators A: Physical</i> , 2021, 321, 112543.	2.0	8
16	A Self-Powered, Real-Time, LoRaWAN IoT-Based Soil Health Monitoring System. <i>IEEE Internet of Things Journal</i> , 2021, 8, 9278-9293.	5.5	36
17	Flexible Microneedle Array Patch for Chronic Wound Oxygenation and Biofilm Eradication. <i>ACS Applied Bio Materials</i> , 2021, 4, 5405-5415.	2.3	41
18	Highly Conductive Copper-Silver Bimodal Paste for Low-Cost Printed Electronics. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3352-3364.	2.0	27

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19	Small intestinal sampling capsule for inflammatory bowel disease type detection and management. Lab on A Chip, 2021, 22, 57-70.	3.1	16
20	A lab-on-chip ultrasonic platform for real-time and nondestructive assessment of extracellular matrix stiffness. Lab on A Chip, 2020, 20, 778-788.	3.1	14
21	Smart capsule for non-invasive sampling and studying of the gastrointestinal microbiome. RSC Advances, 2020, 10, 16313-16322.	1.7	45
22	Laser Functionalization of Carbon Membranes for Effective Immobilization of Antimicrobial Silver Nanoparticles. Journal of Environmental Chemical Engineering, 2020, 8, 104109.	3.3	14
23	Integrated sensing and delivery of oxygen for next-generation smart wound dressings. Microsystems and Nanoengineering, 2020, 6, 46.	3.4	96
24	Laser-Induced Mesoporous Nickel Oxide as a Highly Sensitive Nonenzymatic Glucose Sensor. ACS Applied Nano Materials, 2020, 3, 5260-5270.	2.4	46
25	Roll-to-Roll Production of Novel Large-Area Piezoelectric Films for Transparent, Flexible, and Wearable Fabric Loudspeakers. Advanced Materials Technologies, 2020, 5, 2000296.	3.0	13
26	Wearable and Flexible Ozone Generating System for Treatment of Infected Dermal Wounds. Frontiers in Bioengineering and Biotechnology, 2020, 8, 458.	2.0	12
27	Hierarchical Micro/Mesoporous Copper Structure with Enhanced Antimicrobial Property via Laser Surface Texturing. Advanced Materials Interfaces, 2020, 7, 1901890.	1.9	51
28	A Wireless Implantable Strain Sensing Scheme Using Ultrasound Imaging of Highly Stretchable Zinc Oxide/Poly Dimethylacrylamide Nanocomposite Hydrogel. ACS Applied Bio Materials, 2020, 3, 4012-4024.	2.3	29
29	Real-Time Tracking of a 3D-Printed Smart Capsule Using on-Board Near-Infrared Led Array. , 2019, , .		3
30	Laser-treated glass platform for rapid wicking-driven transport and particle separation in bio microfluidics. RSC Advances, 2019, 9, 19531-19538.	1.7	5
31	Rapid prototyping of a novel and flexible paper based oxygen sensing patch via additive inkjet printing process. RSC Advances, 2019, 9, 22695-22704.	1.7	30
32	A mass-customizable dermal patch with discrete colorimetric indicators for personalized sweat rate quantification. Microsystems and Nanoengineering, 2019, 5, 29.	3.4	30
33	A pH-regulated drug delivery dermal patch for targeting infected regions in chronic wounds. Lab on A Chip, 2019, 19, 2265-2274.	3.1	47
34	Cell Culture and Coculture for Oncological Research in Appropriate Microenvironments. Current Protocols in Chemical Biology, 2019, 11, e65.	1.7	10
35	Wireless Sensor Network Utilizing Flexible Nitrate Sensors for Smart Farming. , 2019, , .		11
36	Development of a nickel oxide/oxyhydroxide-modified printed carbon electrode as an all solid-state sensor for potentiometric phosphate detection. New Journal of Chemistry, 2019, 43, 18619-18628.	1.4	28

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37	Roll-to-Roll (R2R) Production of Ultrasensitive, Flexible, and Transparent Pressure Sensors Based on Vertically Aligned Lead Zirconate Titanate and Graphene Nanoplatelets. <i>Advanced Materials Technologies</i> , 2019, 4, 1800425.	3.0	21
38	Inkjet-printed Solid-state Potentiometric Nitrate Ion Selective Electrodes for Agricultural Application. , 2019, , .		11
39	Laser-enabled fabrication of flexible and transparent pH sensor with near-field communication for in-situ monitoring of wound infection. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 198-207.	4.0	60
40	Gradient-on-a-Chip with Reactive Oxygen Species Reveals Thresholds in the Nucleus Response of Cancer Cells Depending on the Matrix Environment. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 432-445.	2.6	17
41	Comparison of Direct and Indirect Laser Ablation of Metallized Paper for Inexpensive Paper-Based Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36332-36341.	4.0	23
42	Fabrication and characterization of implantable flushable electrodes for electric field-mediated drug delivery in a brain tissue-mimic agarose gel. <i>Electrophoresis</i> , 2018, 39, 2262-2269.	1.3	7
43	Smart Bandage for Monitoring and Treatment of Chronic Wounds. <i>Small</i> , 2018, 14, e1703509.	5.2	257
44	Laser-Enabled Processing of Stretchable Electronics on a Hydrolytically Degradable Hydrogel. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800231.	3.9	26
45	Smart Bandages: Smart Bandage for Monitoring and Treatment of Chronic Wounds (<i>Small</i> 33/2018). <i>Small</i> , 2018, 14, 1870150.	5.2	4
46	Yeast Metabolic Response as an Indicator of Radiation Damage in Biological Tissue. <i>Advanced Biology</i> , 2018, 2, 1800126.	3.0	4
47	Highly Stretchable Potentiometric pH Sensor Fabricated via Laser Carbonization and Machining of Carbon-Polyaniline Composite. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9015-9023.	4.0	146
48	Flexible and transparent pH monitoring system with NFC communication for wound monitoring applications. , 2017, , .		17
49	Directly embroidered microtubes for fluid transport in wearable applications. <i>Lab on A Chip</i> , 2017, 17, 1585-1593.	3.1	13
50	Skin Regeneration Using Dermal Substrates that Contain Autologous Cells and Silver Nanoparticles to Promote Antibacterial Activity: In Vitro Studies. <i>Military Medicine</i> , 2017, 182, 376-382.	0.4	5
51	Laser-Enabled Fabrication Technologies for Low-Cost Flexible/Conformal Cutaneous Wound Interfaces. <i>Microsystems and Nanosystems</i> , 2016, , 207-226.	0.1	4
52	A paper-based in vitro model for on-chip investigation of the human respiratory system. <i>Lab on A Chip</i> , 2016, 16, 4319-4325.	3.1	24
53	Direct Laser Writing of Porous-Carbon/Silver Nanocomposite for Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16907-16913.	4.0	87
54	A low-cost flexible pH sensor array for wound assessment. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 609-617.	4.0	138

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55	Flexible supercapacitor based on MnO ₂ coated laser carbonized electrodes. Journal of Physics: Conference Series, 2015, 660, 012044.	0.3	5
56	A facile fabrication technique for stretchable interconnects and transducers via laser carbonization. , 2015, , .		1
57	Highly Stretchable and Sensitive Unidirectional Strain Sensor via Laser Carbonization. ACS Applied Materials & Interfaces, 2015, 7, 4463-4470.	4.0	332
58	A Janus-paper PDMS platform for air-liquid interface cell culture applications. Journal of Micromechanics and Microengineering, 2015, 25, 055015.	1.5	16
59	Flexible Sensors for Chronic Wound Management. IEEE Reviews in Biomedical Engineering, 2014, 7, 73-86.	13.1	76
60	Biodegradable Nanofibrous Polymeric Substrates for Generating Elastic and Flexible Electronics. Advanced Materials, 2014, 26, 5823-5830.	11.1	117
61	A sewing-enabled stitch-and-transfer method for robust, ultra-stretchable, conductive interconnects. Journal of Micromechanics and Microengineering, 2014, 24, 095018.	1.5	21