

Mina Hoorfar

List of Publications by Citations

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103
papers

2,957
citations

27
h-index

52
g-index

110
ext. papers

4,012
ext. citations

7
avg, IF

5.92
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 103 | Microfluidics Integrated Biosensors: A Leading Technology towards Lab-on-a-Chip and Sensing Applications. <i>Sensors</i> , 2015 , 15, 30011-31 | 3.8 | 273 |
| 102 | A review of digital microfluidics as portable platforms for lab-on a-chip applications. <i>Lab on A Chip</i> , 2016 , 16, 2376-96 | 7.2 | 254 |
| 101 | Bioinks and bioprinting technologies to make heterogeneous and biomimetic tissue constructs. <i>Materials Today Bio</i> , 2019 , 1, 100008 | 9.9 | 198 |
| 100 | Challenges and opportunities in exosome research-Perspectives from biology, engineering, and cancer therapy. <i>APL Bioengineering</i> , 2019 , 3, 011503 | 6.6 | 188 |
| 99 | Failure mechanisms of additively manufactured porous biomaterials: Effects of porosity and type of unit cell. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 50, 180-91 | 4.1 | 173 |
| 98 | A review of sorting, separation and isolation of cells and microbeads for biomedical applications: microfluidic approaches. <i>Analyst, The</i> , 2018 , 144, 87-113 | 5 | 134 |
| 97 | Additive manufacturing and mechanical characterization of graded porosity scaffolds designed based on triply periodic minimal surface architectures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 62, 481-494 | 4.1 | 128 |
| 96 | 3D-Printed Ultra-Robust Surface-Doped Porous Silicone Sensors for Wearable Biomonitoring. <i>ACS Nano</i> , 2020 , 14, 1520-1532 | 16.7 | 76 |
| 95 | Permeability and mechanical properties of gradient porous PDMS scaffolds fabricated by 3D-printed sacrificial templates designed with minimal surfaces. <i>Acta Biomaterialia</i> , 2019 , 96, 149-160 | 10.8 | 73 |
| 94 | Online Drinking Water Quality Monitoring: Review on Available and Emerging Technologies. <i>Critical Reviews in Environmental Science and Technology</i> , 2014 , 44, 1370-1421 | 11.1 | 72 |
| 93 | Investigating internal architecture effect in plastic deformation and failure for TPMS-based scaffolds using simulation methods and experimental procedure. <i>Materials Science and Engineering C</i> , 2014 , 43, 587-97 | 8.3 | 63 |
| 92 | Extrusion and Microfluidic-based Bioprinting to Fabricate Biomimetic Tissues and Organs. <i>Advanced Materials Technologies</i> , 2020 , 5, 1901044 | 6.8 | 57 |
| 91 | Graphene-Coated Spandex Sensors Embedded into Silicone Sheath for Composites Health Monitoring and Wearable Applications. <i>Small</i> , 2019 , 15, e1804991 | 11 | 54 |
| 90 | Low-cost ultra-stretchable strain sensors for monitoring human motion and bio-signals. <i>Sensors and Actuators A: Physical</i> , 2018 , 271, 182-191 | 3.9 | 53 |
| 89 | The relationships between deformation mechanisms and mechanical properties of additively manufactured porous biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 70, 28-42 | 4.1 | 50 |
| 88 | Compressive characteristics of radially graded porosity scaffolds architected with minimal surfaces. <i>Materials Science and Engineering C</i> , 2018 , 92, 254-267 | 8.3 | 47 |
| 87 | Micro and nanoscale technologies in oral drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020 , 157, 37-62 | 8.5 | 45 |

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|----|--|------|----|
| 86 | Hybrid Nanosystems for Biomedical Applications. <i>ACS Nano</i> , 2021 , 15, 2099-2142 | 16.7 | 43 |
| 85 | Leakage detection and location in water distribution systems using a fuzzy-based methodology. <i>Urban Water Journal</i> , 2011 , 8, 351-365 | 2.3 | 41 |
| 84 | Reliability Assessment for Water Supply Systems under Uncertainties. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 468-479 | 2.8 | 38 |
| 83 | Systematic analysis of geometrical based unequal droplet splitting in digital microfluidics. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 055008 | 2 | 35 |
| 82 | Integration of biosensors into digital microfluidics: Impact of hydrophilic surface of biosensors on droplet manipulation. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 480-486 | 11.8 | 31 |
| 81 | 3D-printed multimaterial composites tailored for compliancy and strain recovery. <i>Composite Structures</i> , 2018 , 184, 11-17 | 5.3 | 30 |
| 80 | Multiphase flow in microfluidics: From droplets and bubbles to the encapsulated structures. <i>Advances in Colloid and Interface Science</i> , 2020 , 282, 102208 | 14.3 | 29 |
| 79 | Evaluating Water Quality Failure Potential in Water Distribution Systems: A Fuzzy-TOPSIS-OWA-based Methodology. <i>Water Resources Management</i> , 2013 , 27, 2195-2216 | 3.7 | 28 |
| 78 | Fluid Permeability of Graded Porosity Scaffolds Architected with Minimal Surfaces. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1228-1237 | 5.5 | 28 |
| 77 | Predicting permeability of regular tissue engineering scaffolds: scaling analysis of pore architecture, scaffold length, and fluid flow rate effects. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 231-241 | 2.1 | 27 |
| 76 | Label-Free Capacitive Biosensor for Detection of. <i>Sensors</i> , 2019 , 19, | 3.8 | 27 |
| 75 | Additively Manufactured Gradient Porous Ti-6Al-4V Hip Replacement Implants Embedded with Cell-Laden Gelatin Methacryloyl Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22110-22123 | 9.5 | 26 |
| 74 | Anti-bacterial and wound healing-promoting effects of zinc ferrite nanoparticles. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 38 | 9.4 | 25 |
| 73 | An electrohydrodynamic technique for rapid mixing in stationary droplets on digital microfluidic platforms. <i>Lab on A Chip</i> , 2017 , 17, 227-234 | 7.2 | 24 |
| 72 | Characterization of channel coating and dimensions of microfluidic-based gas detectors. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 55-64 | 8.5 | 23 |
| 71 | Selective detection of volatile organic compounds in microfluidic gas detectors based on "like dissolves like". <i>Scientific Reports</i> , 2019 , 9, 161 | 4.9 | 20 |
| 70 | A dielectrophoretic-gravity driven particle focusing technique for digital microfluidic systems. <i>Applied Physics Letters</i> , 2015 , 106, 204101 | 3.4 | 20 |
| 69 | Ultra-Portable Smartphone Controlled Integrated Digital Microfluidic System in a 3D-Printed Modular Assembly. <i>Micromachines</i> , 2015 , 6, 1289-1305 | 3.3 | 20 |

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|----|---|------|----|
| 68 | Characterization of the geometry of negative dielectrophoresis traps for particle immobilization in digital microfluidic platforms. <i>Lab on A Chip</i> , 2013 , 13, 1823-30 | 7.2 | 20 |
| 67 | Laterally Confined Microfluidic Patterning of Cells for Engineering Spatially Defined Vascularization. <i>Small</i> , 2016 , 12, 5132-5139 | 11 | 18 |
| 66 | On-Chip Electronic Nose For Wine Tasting: A Digital Microfluidic Approach. <i>IEEE Sensors Journal</i> , 2017 , 17, 4322-4329 | 4 | 17 |
| 65 | 3D Printing-Based Integrated Water Quality Sensing System. <i>Sensors</i> , 2017 , 17, | 3.8 | 17 |
| 64 | Evidential reasoning using extended fuzzy Dempster-Shafer theory for handling various facets of information deficiency. <i>International Journal of Intelligent Systems</i> , 2011 , 26, 731-758 | 8.4 | 17 |
| 63 | Toward a neurospheroid niche model: optimizing embedded 3D bioprinting for fabrication of neurospheroid brain-like co-culture constructs. <i>Biofabrication</i> , 2020 , | 10.5 | 16 |
| 62 | Ferritin Nanocage Conjugated Hybrid Hydrogel for Tissue Engineering and Drug Delivery Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 277-287 | 5.5 | 16 |
| 61 | Additively manufactured metallic biomaterials.. <i>Bioactive Materials</i> , 2022 , 15, 214-249 | 16.7 | 16 |
| 60 | Graphene/poly (methyl methacrylate) electrochemical impedance-transduced chemiresistor for detection of volatile organic compounds in aqueous medium. <i>Analytica Chimica Acta</i> , 2020 , 1109, 27-36 | 6.6 | 15 |
| 59 | Sacrificial 3D printing of shrinkable silicone elastomers for enhanced feature resolution in flexible tissue scaffolds. <i>Acta Biomaterialia</i> , 2020 , 117, 261-272 | 10.8 | 14 |
| 58 | Gravity-driven hydrodynamic particle separation in digital microfluidic systems. <i>RSC Advances</i> , 2015 , 5, 35966-35975 | 3.7 | 13 |
| 57 | Electrohydrodynamic modeling of microdroplet transient dynamics in electrocapillary-based digital microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 1019-1032 | 2.8 | 13 |
| 56 | Purification of a droplet using negative dielectrophoresis traps in digital microfluidics. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 483-492 | 2.8 | 12 |
| 55 | Nano-porous anodic alumina: fundamentals and applications in tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 60 | 4.5 | 12 |
| 54 | Diffusion-based humidity control membrane for microfluidic-based gas detectors. <i>Analytica Chimica Acta</i> , 2018 , 1021, 103-112 | 6.6 | 12 |
| 53 | A frameless picture frame test with embedded sensor: Mitigation of imperfections in shear characterization of woven fabrics. <i>Composite Structures</i> , 2019 , 211, 112-124 | 5.3 | 12 |
| 52 | Integrated Sensors in Advanced Composites: A Critical Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2020 , 45, 187-238 | 10.1 | 12 |
| 51 | Nanomaterial-based encapsulation for controlled gastrointestinal delivery of viable probiotic bacteria. <i>Nanoscale Advances</i> , 2021 , 3, 2699-2709 | 5.1 | 12 |

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|----|--|-----|----|
| 50 | Stretchable and Bioadhesive Gelatin Methacryloyl-Based Hydrogels Enabled by Dopamine Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40290-40301 | 9.5 | 12 |
| 49 | High Throughput Screening of Cell Mechanical Response Using a Stretchable 3D Cellular Microarray Platform. <i>Small</i> , 2020 , 16, e2000941 | 11 | 11 |
| 48 | Parametric study on the geometrical parameters of a lab-on-a-chip platform with tilted planar electrodes for continuous dielectrophoretic manipulation of microparticles. <i>Scientific Reports</i> , 2020 , 10, 11718 | 4.9 | 11 |
| 47 | Classification and Regression of Binary Hydrocarbon Mixtures using Single Metal Oxide Semiconductor Sensor With Application to Natural Gas Detection. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 129012 | 8.5 | 10 |
| 46 | Kinetic characterization of acetone monooxygenase from <i>Gordonia</i> sp. strain TY-5. <i>AMB Express</i> , 2018 , 8, 181 | 4.1 | 10 |
| 45 | Online monitoring of drinking water quality in a distribution network: a selection procedure for suitable water quality parameters and sensor devices. <i>International Journal of Systems Assurance Engineering and Management</i> , 2012 , 3, 323-337 | 1.3 | 9 |
| 44 | Exploiting Microfluidics for Extracellular Vesicle Isolation and Characterization: Potential Use for Standardized Embryo Quality Assessment. <i>Frontiers in Veterinary Science</i> , 2020 , 7, 620809 | 3.1 | 9 |
| 43 | Experimental characterization of the inter-ply shear behavior of dry and prepreg woven fabrics: Significance of mixed lubrication mode during thermoset composites processing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 129, 105725 | 8.4 | 8 |
| 42 | Integrated Decision Support System for Prognostic and Diagnostic Analyses of Water Distribution System Failures. <i>Water Resources Management</i> , 2016 , 30, 2831-2850 | 3.7 | 8 |
| 41 | A Nanostructured Microfluidic Artificial Olfaction for Organic Vapors Recognition. <i>Scientific Reports</i> , 2019 , 9, 19051 | 4.9 | 8 |
| 40 | Enhanced selectivity of microfluidic gas sensors by modifying microchannel geometry and surface chemistry with graphene quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2021 , 342, 130050 | 8.5 | 8 |
| 39 | Water distribution system failure: a framework for forensic analysis. <i>Environment Systems and Decisions</i> , 2014 , 34, 168-179 | 4.1 | 7 |
| 38 | Dielectrophoretic manipulation of particles on a microfluidics platform with planar tilted electrodes. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129204 | 8.5 | 7 |
| 37 | A review of low-temperature H ₂ S gas sensors: fabrication and mechanism. <i>New Journal of Chemistry</i> , | 3.6 | 7 |
| 36 | Development of a Sensing Platform for Nuisance Sewer Gas Monitoring: Hydrogen Sulfide Detection in Aqueous Versus Gaseous Samples. <i>IEEE Sensors Journal</i> , 2018 , 18, 7772-7778 | 4 | 7 |
| 35 | Study of the effect of electric field and electroneutrality on transport of biomolecules in microreactors. <i>Microfluidics and Nanofluidics</i> , 2012 , 12, 279-294 | 2.8 | 6 |
| 34 | Topical review on monitoring tetrahydrocannabinol in breath. <i>Journal of Breath Research</i> , 2020 , 14, 034002 | 3.9 | 6 |
| 33 | Sheath-assisted focusing of microparticles on lab-on-a-chip platforms. <i>Electrophoresis</i> , 2020 , 41, 2188 | 3.6 | 6 |

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|----|---|------|---|
| 32 | A selective polypyrrole-based sub-ppm impedimetric sensor for the detection of dissolved hydrogen sulfide and ammonia in a mixture. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125892 | 12.8 | 6 |
| 31 | Fabrication of SnO Composite Nanofiber-Based Gas Sensor using the Electrospinning Method for Tetrahydrocannabinol (THC) Detection. <i>Micromachines</i> , 2020 , 11, | 3.3 | 5 |
| 30 | Interval belief structure rule-based system using extended fuzzy Dempster-Shafer inference 2011 , | | 5 |
| 29 | Motion and deformation of migrating compound droplets in shear-thinning fluids in a microcapillary tube. <i>Physics of Fluids</i> , 2021 , 33, 053106 | 4.4 | 5 |
| 28 | Performance optimization of a novel passive T-shaped micromixer with deformable baffles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 163, 108369 | 3.7 | 5 |
| 27 | Simulation of combustion in a porous-medium diesel engine. <i>Journal of Mechanical Science and Technology</i> , 2018 , 32, 2327-2337 | 1.6 | 5 |
| 26 | Numerical study of the microdroplet actuation switching frequency in digital microfluidic biochips. <i>Microfluidics and Nanofluidics</i> , 2012 , 12, 295-305 | 2.8 | 4 |
| 25 | Exhaled Breath Analysis for Diabetes Diagnosis and Monitoring: Relevance, Challenges and Possibilities.. <i>Biosensors</i> , 2021 , 11, | 5.9 | 4 |
| 24 | Comprehensive review of conventional and state-of-the-art detection methods of Cryptosporidium. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126714 | 12.8 | 4 |
| 23 | Microfluidic-Based Oxygen (O) Sensors for On-Chip Monitoring of Cell, Tissue and Organ Metabolism.. <i>Biosensors</i> , 2021 , 12, | 5.9 | 4 |
| 22 | Highly selective multi-target 3D-printed microfluidic-based breath analyzer 2016 , | | 3 |
| 21 | Analytical study of unsteady sedimentation analysis of spherical particle in Newtonian fluid media. <i>Thermal Science</i> , 2018 , 22, 847-855 | 1.2 | 3 |
| 20 | Selective detection of VOCs using microfluidic gas sensor with embedded cylindrical microfeatures coated with graphene oxide. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127566 | 12.8 | 3 |
| 19 | Control of artificial human finger using wearable device and adaptive network-based fuzzy inference system 2016 , | | 3 |
| 18 | Micron-sized particle separation with standing surface acoustic wave-Experimental and numerical approaches. <i>Ultrasonics Sonochemistry</i> , 2021 , 76, 105651 | 8.9 | 3 |
| 17 | Effect of Gas Diffusion Layer Properties on Breakthrough Time and Pressure. <i>Transport in Porous Media</i> , 2014 , 105, 43-55 | 3.1 | 2 |
| 16 | A fuzzy rule-based approach for water quality assessment in the distribution network 2013 , | | 2 |
| 15 | Template-Enabled Biofabrication of Thick Three-Dimensional Tissues with Patterned Perfusable Macro-Channels.. <i>Advanced Healthcare Materials</i> , 2021 , e2102123 | 10.1 | 2 |

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|----|---|------|---|
| 14 | A review on 3D printing functional brain model.. <i>Biomicrofluidics</i> , 2022 , 16, 011501 | 3.2 | 2 |
| 13 | Slip-bias extension test: A characterization tool for understanding and modeling the effect of clamping conditions in forming of woven fabrics. <i>Composite Structures</i> , 2021 , 260, 113529 | 5.3 | 2 |
| 12 | Potentiodynamic Electrochemical Impedance Spectroscopy of Polyaniline-Modified Pencil Graphite Electrodes for Selective Detection of Biochemical Trace Elements.. <i>Polymers</i> , 2021 , 14, | 4.5 | 2 |
| 11 | Properties and Applications of Graphene and Its Derivatives in Biosensors for Cancer Detection: A Comprehensive Review. <i>Biosensors</i> , 2022 , 12, 269 | 5.9 | 2 |
| 10 | On-chip-based electrochemical biosensor for the sensitive and label-free detection of <i>Cryptosporidium</i> .. <i>Scientific Reports</i> , 2022 , 12, 6957 | 4.9 | 2 |
| 9 | Networked fuzzy belief rule-based system for spatiotemporal monitoring 2013 , | | 1 |
| 8 | Multicriteria information fusion using a fuzzy evidential rule-based framework 2012 , | | 1 |
| 7 | Portable on-chip colorimetric biosensing platform integrated with a smartphone for label/PCR-free detection of <i>Cryptosporidium</i> RNA. <i>Scientific Reports</i> , 2021 , 11, 23192 | 4.9 | 1 |
| 6 | Microfluidic On-Chip Production of Alginate Hydrogels Using Double Coflow Geometry. <i>ACS Omega</i> , 2021 , 6, 25964-25971 | 3.9 | 1 |
| 5 | Neural Network-Based Optimization of an Acousto Microfluidic System for Submicron Bioparticle Separation.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 878398 | 5.8 | 1 |
| 4 | Sheath-assisted versus sheathless dielectrophoretic particle separation. <i>Electrophoresis</i> , 2021 , 42, 1570-1577 | 3.5 | 0 |
| 3 | High-throughput three-dimensional cellular platforms for screening biophysical microenvironmental signals 2021 , 125-152 | | |
| 2 | Template-Enabled Biofabrication of Thick 3D Tissues with Patterned Perfusable Macrochannels (Adv. Healthcare Mater. 7/2022). <i>Advanced Healthcare Materials</i> , 2022 , 11, 2270038 | 10.1 | |
| 1 | Nano-scale Particle Separation with Tilted Standing Surface Acoustic Wave [Experimental and Numerical Approaches. <i>Particle and Particle Systems Characterization</i> , 2200057 | 3.1 | |