

Edward P Furlani

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,602
citations

304743

22
h-index

302126

39
g-index

54
all docs

54
docs citations

54
times ranked

2263
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards an effective sensing technology to monitor micro-scale interface loosening of bioelectronic implants. <i>Scientific Reports</i> , 2021, 11, 3449.	3.3	18
2	Capacitive interdigitated system of high osteoinductive/conductive performance for personalized acting-sensing implants. <i>Npj Regenerative Medicine</i> , 2021, 6, 80.	5.2	15
3	Formation and manipulation of ferrofluid droplets with magnetic fields in a microdevice: a numerical parametric study. <i>Soft Matter</i> , 2020, 16, 9506-9518.	2.7	17
4	Hybridization of plasmon modes in multishell bimetallic nanoparticles: a numerical study. <i>Journal of Nanophotonics</i> , 2020, 14, 1.	1.0	2
5	Coherent Raman spectroscopic imaging to characterize microglia activation pathway. <i>Journal of Biophotonics</i> , 2019, 12, e201800133.	2.3	6
6	Numerical Analysis of Bead Magnetophoresis from Flowing Blood in a Continuous-Flow Microchannel: Implications to the Bead-Fluid Interactions. <i>Scientific Reports</i> , 2019, 9, 7265.	3.3	23
7	The role of pH fronts, chlorination and physicochemical reactions in tumor necrosis in the electrochemical treatment of tumors: A numerical study. <i>Electrochimica Acta</i> , 2019, 307, 129-147.	5.2	5
8	Capacitive technologies for highly controlled and personalized electrical stimulation by implantable biomedical systems. <i>Scientific Reports</i> , 2019, 9, 5001.	3.3	26
9	Two-Step Numerical Approach To Predict Ferrofluid Droplet Generation and Manipulation inside Multilaminar Flow Chambers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10065-10080.	3.1	12
10	Size Effects in Vibrating Silicon Crystal Microbeams. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	2.9	6
11	Interaction of Structured Light with a Chiral Plasmonic Metasurface: Giant Enhancement of Chiro-Optic Response. <i>ACS Photonics</i> , 2018, 5, 734-740.	6.6	27
12	Computational modeling and fluorescence microscopy characterization of a two-phase magnetophoretic microsystem for continuous-flow blood detoxification. <i>Lab on A Chip</i> , 2018, 18, 1593-1606.	6.0	21
13	Theoretical Study of the Self-Assembly and Optical Properties of 1D Chains of Magneticâ€“Plasmonic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9489-9496.	3.1	17
14	Magnetic Bead Separation from Flowing Blood in a Two-Phase Continuous-Flow Magnetophoretic Microdevice: Theoretical Analysis through Computational Fluid Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7466-7477.	3.1	21
15	Geometric Restriction of Gas Permeance in Ultrathin Film Composite Membranes Evaluated Using an Integrated Experimental and Modeling Approach. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 351-358.	3.7	31
16	Theoretical study of the photothermal behaviour of self-assembled magneticâ€“plasmonic chain structures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31613-31620.	2.8	1
17	Analysis of separators for magnetic beads recovery: From large systems to multifunctional microdevices. <i>Separation and Purification Technology</i> , 2017, 172, 16-31.	7.9	61
18	Computational Analysis of a Two-Phase Continuous-Flow Magnetophoretic Microsystem for Particle Separation from Biological Fluids. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 1183-1188.	0.5	1

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19	New cosurface capacitive stimulators for the development of active osseointegrative implantable devices. <i>Scientific Reports</i> , 2016, 6, 30231.	3.3	28
20	Theoretical Comparison of Optical Properties of Near-Infrared Colloidal Plasmonic Nanoparticles. <i>Scientific Reports</i> , 2016, 6, 34189.	3.3	31
21	Optimization of Optical Absorption of Colloids of SiO ₂ @Au and Fe ₃ O ₄ @Au Nanoparticles with Constraints. <i>Scientific Reports</i> , 2016, 6, 35911.	3.3	8
22	Tunable Bloch Wave Resonances and Bloch Gaps in Uniform Materials with Reconfigurable Boundary Profiles. <i>Physical Review Letters</i> , 2016, 116, 206802.	7.8	5
23	Optical Fano Resonance in Self-Assembled Magnetic Core-Shell Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27555-27561.	3.1	21
24	Magnetic levitation-based electromagnetic energy harvesting: a semi-analytical non-linear model for energy transduction. <i>Scientific Reports</i> , 2016, 6, 18579.	3.3	79
25	A numerical study of the photothermal behaviour of near-infrared plasmonic colloids. <i>RSC Advances</i> , 2016, 6, 100670-100675.	3.6	2
26	Plasmonic Nanoframes for Photothermal Energy Conversion. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7256-7264.	3.1	17
27	Designing ultrathin film composite membranes: the impact of a gutter layer. <i>Scientific Reports</i> , 2015, 5, 15016.	3.3	98
28	Magnetofection Mediated Transient NANOG Overexpression Enhances Proliferation and Myogenic Differentiation of Human Hair Follicle Derived Mesenchymal Stem Cells. <i>Bioconjugate Chemistry</i> , 2015, 26, 1314-1327.	3.6	19
29	Analysis of the Dynamics of Magnetic Core-Shell Nanoparticles and Self-Assembly of Crystalline Superstructures in Gradient Fields. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5714-5726.	3.1	26
30	Maximizing derivable information from cytologic specimens for pathologic and molecular diagnostics. <i>Journal of the American Society of Cytopathology</i> , 2015, 4, 141-147.	0.5	2
31	Room-Temperature Synthesis of Covellite Nanoplatelets with Broadly Tunable Localized Surface Plasmon Resonance. <i>Chemistry of Materials</i> , 2015, 27, 2584-2590.	6.7	83
32	Self-Assembly of Crystalline Structures of Magnetic Core-Shell Nanoparticles for Fabrication of Nanostructured Materials. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22515-22524.	8.0	33
33	Template-assisted nano-patterning of magnetic core-shell particles in gradient fields. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13306-13317.	2.8	28
34	Scalability analysis of magnetic bead separation in a microchannel with an array of soft magnetic elements in a uniform magnetic field. <i>Separation and Purification Technology</i> , 2014, 125, 311-318.	7.9	44
35	Plasmon-Enhanced Metasurfaces for Controlling Optical Polarization. <i>ACS Photonics</i> , 2014, 1, 507-515.	6.6	21
36	Phospholipid micelle-based magneto-plasmonic nanoformulation for magnetic field-directed, imaging-guided photo-induced cancer therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 1192-1202.	3.3	26

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37	Photonic and Thermofluidic Analysis of Colloidal Plasmonic Nanorings and Nanotori for Pulsed-Laser Photothermal Applications. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20178-20185.	3.1	24
38	Coupled particle-fluid transport and magnetic separation in microfluidic systems with passive magnetic functionality. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 125002.	2.8	34
39	Field, force and transport analysis for magnetic particle-based gene delivery. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 589-602.	2.2	37
40	Analysis of pulsed laser plasmon-assisted photothermal heating and bubble generation at the nanoscale. <i>Lab on A Chip</i> , 2012, 12, 3707.	6.0	53
41	A Model for Predicting Field-Directed Particle Transport in the Magnetofection Process. <i>Pharmaceutical Research</i> , 2012, 29, 1366-1379.	3.5	22
42	Effects of particle-fluid coupling on particle transport and capture in a magnetophoretic microsystem. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 565-580.	2.2	54
43	Subwavelength Direct Laser Patterning of Conductive Gold Nanostructures by Simultaneous Photopolymerization and Photoreduction. <i>ACS Nano</i> , 2011, 5, 1947-1957.	14.6	110
44	Antiresonant guiding optofluidic biosensor. <i>Optics Communications</i> , 2011, 284, 4094-4098.	2.1	8
45	The effect of static magnetic fields and tat peptides on cellular and nuclear uptake of magnetic nanoparticles. <i>Biomaterials</i> , 2010, 31, 4392-4400.	11.4	68
46	Magnetic Biotransport: Analysis and Applications. <i>Materials</i> , 2010, 3, 2412-2446.	2.9	97
47	Electromagnetic enhancement in lossy optical transition metamaterials. <i>Optics Letters</i> , 2010, 35, 3240.	3.3	22
48	Optical nanotrapping using cloaking metamaterial. <i>Physical Review E</i> , 2009, 79, 026607.	2.1	22
49	Free-space excitation of resonant cavities formed from cloaking metamaterial. <i>Journal of Modern Optics</i> , 2009, 56, 523-529.	1.3	12
50	Laser nanotrapping and manipulation of nanoscale objects using subwavelength apertured plasmonic media. <i>Journal of Applied Physics</i> , 2008, 103, 084316.	2.5	8
51	Negative refractivity assisted optical power limiting. <i>Journal of Applied Physics</i> , 2007, 102, 043101.	2.5	8
52	A model for predicting magnetic targeting of multifunctional particles in the microvasculature. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 312, 187-193.	2.3	128
53	Field Analysis. , 2001, , 97-205.		9