

Jonathan C Claussen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74 papers	3,080 citations	32 h-index	55 g-index
79 ext. papers	3,530 ext. citations	7.9 avg, IF	5.31 L-index

#	Paper	IF	Citations
74	Bacterial isolation by lectin-modified microengines. <i>Nano Letters</i> , 2012 , 12, 396-401	11.5	258
73	Acoustic droplet vaporization and propulsion of perfluorocarbon-loaded microbullets for targeted tissue penetration and deformation. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7519-22	16.4	220
72	Electrochemical biosensor of nanocube-augmented carbon nanotube networks. <i>ACS Nano</i> , 2009 , 3, 37-44	6.7	210
71	Increasing the activity of immobilized enzymes with nanoparticle conjugation. <i>Current Opinion in Biotechnology</i> , 2015 , 34, 242-50	11.4	179
70	Nanostructuring Platinum Nanoparticles on Multilayered Graphene Petal Nanosheets for Electrochemical Biosensing. <i>Advanced Functional Materials</i> , 2012 , 22, 3399-3405	15.6	176
69	3D nanostructured inkjet printed graphene via UV-pulsed laser irradiation enables paper-based electronics and electrochemical devices. <i>Nanoscale</i> , 2016 , 8, 15870-9	7.7	93
68	Printed Graphene Electrochemical Biosensors Fabricated by Inkjet Maskless Lithography for Rapid and Sensitive Detection of Organophosphates. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11125-11134	9.5	87
67	Complex logic functions implemented with quantum dot bionanophotonic circuits. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3771-8	9.5	85
66	Flexible Laser-Induced Graphene for Nitrogen Sensing in Soil. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39124-39133	9.5	76
65	Biophotonic logic devices based on quantum dots and temporally-staggered Föster energy transfer relays. <i>Nanoscale</i> , 2013 , 5, 12156-70	7.7	74
64	A paper based graphene-nanocauliflower hybrid composite for point of care biosensing. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 479-487	11.8	73
63	A self referencing platinum nanoparticle decorated enzyme-based microbiosensor for real time measurement of physiological glucose transport. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2237-45	11.8	71
62	Nanomaterial-mediated Biosensors for Monitoring Glucose. <i>Journal of Diabetes Science and Technology</i> , 2014 , 8, 403-411	4.1	69
61	A comparative study of enzyme immobilization strategies for multi-walled carbon nanotube glucose biosensors. <i>Nanotechnology</i> , 2011 , 22, 355502	3.4	69
60	Flexible thermoelectric generators with inkjet-printed bismuth telluride nanowires and liquid metal contacts. <i>Nanoscale</i> , 2019 , 11, 5222-5230	7.7	65
59	Laser-Induced Graphene Electrochemical Immunosensors for Rapid and Label-Free Monitoring of in Chicken Broth. <i>ACS Sensors</i> , 2020 , 5, 1900-1911	9.2	62
58	A self-referencing glutamate biosensor for measuring real time neuronal glutamate flux. <i>Journal of Neuroscience Methods</i> , 2010 , 189, 14-22	3	58

57	Rapid and Label-Free Detection of Interferon Gamma via an Electrochemical Aptasensor Comprising a Ternary Surface Monolayer on a Gold Interdigitated Electrode Array. <i>ACS Sensors</i> , 2017 , 2, 210-217	9.2	54
56	Aerosol-Jet-Printed Graphene Immunosensor for Label-Free Cytokine Monitoring in Serum. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8592-8603	9.5	52
55	Microbiosensors based on DNA modified single-walled carbon nanotube and Pt black nanocomposites. <i>Analyst, The</i> , 2011 , 136, 4916-24	5	51
54	Electrochemical glutamate biosensing with nanocube and nanosphere augmented single-walled carbon nanotube networks: a comparative study. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11224		51
53	Probing the Enzymatic Activity of Alkaline Phosphatase within Quantum Dot Bioconjugates. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2208-2221	3.8	49
52	Enabling Inkjet Printed Graphene for Ion Selective Electrodes with Postprint Thermal Annealing. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12719-12727	9.5	47
51	Electrical Differentiation of Mesenchymal Stem Cells into Schwann-Cell-Like Phenotypes Using Inkjet-Printed Graphene Circuits. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601087	10.1	45
50	Transforming the fabrication and biofunctionalization of gold nanoelectrode arrays into versatile electrochemical glucose biosensors. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1765-70	9.5	44
49	High-Resolution Graphene Films for Electrochemical Sensing via Inkjet Maskless Lithography. <i>ACS Nano</i> , 2017 , 11, 9836-9845	16.7	43
48	Electrochemical glucose biosensor of platinum nanospheres connected by carbon nanotubes. <i>Journal of Diabetes Science and Technology</i> , 2010 , 4, 312-9	4.1	43
47	High Aspect Ratio Carbon Nanotube Membranes Decorated with Pt Nanoparticle Urchins for Micro Underwater Vehicle Propulsion via H ₂ O ₂ Decomposition. <i>ACS Nano</i> , 2015 , 9, 7791-803	16.7	39
46	Multiplexed and Switchable Release of Distinct Fluids from Microneedle Platforms via Conducting Polymer Nanoactuators for Potential Drug Delivery. <i>Sensors and Actuators B: Chemical</i> , 2012 , 161,	8.5	39
45	Inkjet Printing of Single-Crystalline Bi ₂ Te ₃ Thermoelectric Nanowire Networks. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600524	6.4	37
44	Effects of Carbon Nanotube-Tethered Nanosphere Density on Amperometric Biosensing: Simulation and Experiment. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20896-20904	3.8	37
43	Platinum-paper micromotors: an urchin-like nanohybrid catalyst for green monopropellant bubble-thrusters. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17837-47	9.5	34
42	Enhanced electrochemical biosensor and supercapacitor with 3D porous architected graphene via salt impregnated inkjet maskless lithography. <i>Nanoscale Horizons</i> , 2019 , 4, 735-746	10.8	32
41	CIP2A immunosensor comprised of vertically-aligned carbon nanotube interdigitated electrodes towards point-of-care oral cancer screening. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 68-74	11.8	29
40	Electrochemical Glucose Sensors Enhanced by Methyl Viologen and Vertically Aligned Carbon Nanotube Channels. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28351-28360	9.5	28

39	Superhydrophobic inkjet printed flexible graphene circuits via direct-pulsed laser writing. <i>Nanoscale</i> , 2017 , 9, 19058-19065	7.7	27
38	Aerosol-jet-printed graphene electrochemical histamine sensors for food safety monitoring. <i>2D Materials</i> , 2020 , 7, 034002	5.9	27
37	Biosensing with Förster Resonance Energy Transfer Coupling between Fluorophores and Nanocarbon Allotropes. <i>Sensors</i> , 2015 , 15, 14766-87	3.8	27
36	Enhanced enzymatic activity from phosphotriesterase trimer gold nanoparticle bioconjugates for pesticide detection. <i>Analyst, The</i> , 2017 , 142, 3261-3271	5	26
35	A triangular three-dye DNA switch capable of reconfigurable molecular logic. <i>RSC Advances</i> , 2014 , 4, 48860-48871	3.7	24
34	Oscillatory glucose flux in INS 1 pancreatic cells: a self-referencing microbiosensor study. <i>Analytical Biochemistry</i> , 2011 , 411, 185-93	3.1	24
33	Label-free electrochemical immunosensor for the rapid and sensitive detection of the oxidative stress marker superoxide dismutase 1 at the point-of-care. <i>Sensors and Actuators B: Chemical</i> , 2016 , 236, 546-553	8.5	20
32	Fabrication of High-resolution Graphene-based Flexible Electronics via Polymer Casting. <i>Scientific Reports</i> , 2019 , 9, 10595	4.9	20
31	Advances in Controlling Differentiation of Adult Stem Cells for Peripheral Nerve Regeneration. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701046	10.1	18
30	Ion-Selective Sensors Based on Laser-Induced Graphene for Evaluating Human Hydration Levels Using Urine Samples. <i>Advanced Materials Technologies</i> , 2020 , 5, 1901037	6.8	17
29	Independently addressable fields of porous anodic alumina embedded in SiO ₂ on Si. <i>Applied Physics Letters</i> , 2008 , 92, 013122	3.4	17
28	Nanoporous gold peel-and-stick biosensors created with etching inkjet maskless lithography for electrochemical pesticide monitoring with microfluidics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11376-11388 ¹⁵	7.1	15
27	Improving sensitivity of electrochemical sensors with convective transport in free-standing, carbon nanotube structures. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 20-28	8.5	14
26	Electrochemical cotinine sensing with a molecularly imprinted polymer on a graphene-platinum nanoparticle modified carbon electrode towards cigarette smoke exposure monitoring. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 165-172	8.5	14
25	Platinum Nanoparticle Decorated SiO Microfibers as Catalysts for Micro Unmanned Underwater Vehicle Propulsion. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30941-30947	9.5	14
24	Stamped multilayer graphene laminates for disposable in-field electrodes: application to electrochemical sensing of hydrogen peroxide and glucose. <i>Mikrochimica Acta</i> , 2019 , 186, 533	5.8	13
23	pULSED: pulsed sonoelectrodeposition of fractal nanoplatinum for enhancing amperometric biosensor performance. <i>Analyst, The</i> , 2016 , 141, 3367-78	5	13
22	SNAPS: Sensor Analytics Point Solutions for Detection and Decision Support Systems. <i>Sensors</i> , 2019 , 19,	3.8	11

21	Emerging technologies for non-invasive quantification of physiological oxygen transport in plants. <i>Planta</i> , 2013 , 238, 599-614	4.7	7
20	Tuning the Structure, Conductivity, and Wettability of Laser-Induced Graphene for Multiplexed Open Microfluidic Environmental Biosensing and Energy Storage Devices. <i>ACS Nano</i> , 2021 ,	16.7	7
19	Cryoconcentration of flavonoid extract for enhanced biophotovoltaics and pH sensitive thin films. <i>Biotechnology Progress</i> , 2018 , 34, 206-217	2.8	6
18	Hybrid Metallic Nanoparticles: Enhanced Bioanalysis and Biosensing via Carbon Nanotubes, Graphene, and Organic Conjugation 2015 , 137-166		4
17	Synthesis and applications of cellulose nanohybrid materials 2017 , 289-320		4
16	All-graphene-based open fluidics for pumpless, small-scale fluid transport laser-controlled wettability patterning. <i>Nanoscale Horizons</i> , 2021 , 6, 24-32	10.8	4
15	Porous Wood Monoliths Decorated with Platinum Nano-Urchins as Catalysts for Underwater Micro-Vehicle Propulsion via H ₂ O ₂ Decomposition. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4143-4149	5.6	3
14	Using Nanotechnology to Improve Lab on a Chip Devices. <i>Journal of Biochips & Tissue Chips</i> , 2012 , 02,		3
13	3D Interdigitated Vertically Aligned Carbon Nanotube Electrodes for Electrochemical Impedimetric Biosensing. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10166-10175	5.6	3
12	Electrochemical Sensing of Neonicotinoids Using Laser-Induced Graphene. <i>ACS Sensors</i> , 2021 , 6, 3063-3071	3.1	3
11	Fabrication of Two-Dimensional and Three-Dimensional High-Resolution Binder-Free Graphene Circuits Using a Microfluidic Approach for Sensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13529-13539	9.5	2
10	Enhancing molecular logic through modulation of temporal and spatial constraints with quantum dot-based systems that use fluorescent (Förster) resonance energy transfer 2013 ,		2
9	Determination of Electrical Stimuli Parameters To Transdifferentiate Genetically Engineered Mesenchymal Stem Cells into Neuronal or Glial Lineages. <i>Regenerative Engineering and Translational Medicine</i> , 2020 , 6, 18-28	2.4	2
8	Modified kinetics of enzymes interacting with nanoparticles 2015 ,		1
7	Electrochemical Biosensors Based on Carbon Nanotubes 2012 ,		1
6	Laser-induced graphene electrodes for electrochemical ion sensing, pesticide monitoring, and water splitting. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 6201-6212	4.4	1
5	Microbial Pathogen Detection Strategies 2010 , 1-4		0
4	Hydrophobic laser-induced graphene potentiometric ion-selective electrodes for nitrate sensing.. <i>Mikrochimica Acta</i> , 2022 , 189, 122	5.8	0

- 3 Electrochemical Immunobiosensors for Point-of-Care Detection of Hypoxia Biomarkers **2018**, 257-276
- 2 FRET-Based Cellular Sensing with Genetically Encoded Fluorescent Indicators **2013**, 397-429
- 1 Biosensor Capture Kinetics Model of Nanocube-Augmented Carbon Nanotube Networks. *Materials Research Society Symposia Proceedings*, **2009**, 1236, 1