

Jonathan C Claussen

List of Publications by Year in descending order

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75
papers

4,055
citations

109321

35
h-index

114465

63
g-index

79
all docs

79
docs citations

79
times ranked

5556
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the Structure, Conductivity, and Wettability of Laser-Induced Graphene for Multiplexed Open Microfluidic Environmental Biosensing and Energy Storage Devices. <i>ACS Nano</i> , 2022, 16, 15-28.	14.6	40
2	Hydrophobic laser-induced graphene potentiometric ion-selective electrodes for nitrate sensing. <i>Mikrochimica Acta</i> , 2022, 189, 122.	5.0	8
3	Aerosol-jet-printed graphene electrochemical immunosensors for rapid and label-free detection of SARS-CoV-2 in saliva. <i>2D Materials</i> , 2022, 9, 035016.	4.4	24
4	All-graphene-based open fluidics for pumpless, small-scale fluid transport <i>via</i> laser-controlled wettability patterning. <i>Nanoscale Horizons</i> , 2021, 6, 24-32.	8.0	12
5	Electrochemical Sensing of Neonicotinoids Using Laser-Induced Graphene. <i>ACS Sensors</i> , 2021, 6, 3063-3071.	7.8	34
6	Laser-induced graphene electrodes for electrochemical ion sensing, pesticide monitoring, and water splitting. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6201-6212.	3.7	16
7	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.	2.9	7
8	3D Interdigitated Vertically Aligned Carbon Nanotube Electrodes for Electrochemical Impedimetric Biosensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 10166-10175.	5.0	14
9	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.	5.5	29
10	Ion-Selective Sensors Based on Laser-Induced Graphene for Evaluating Human Hydration Levels Using Urine Samples. <i>Advanced Materials Technologies</i> , 2020, 5, 1901037.	5.8	34
11	Aerosol-jet-printed graphene electrochemical histamine sensors for food safety monitoring. <i>2D Materials</i> , 2020, 7, 034002.	4.4	61
12	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.	8.0	4
13	Aerosol-Jet-Printed Graphene Immunosensor for Label-Free Cytokine Monitoring in Serum. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8592-8603.	8.0	87
14	Laser-Induced Graphene Electrochemical Immunosensors for Rapid and Label-Free Monitoring of <i>Salmonella enterica</i> in Chicken Broth. <i>ACS Sensors</i> , 2020, 5, 1900-1911.	7.8	148
15	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.	5.0	19
16	Fabrication of High-resolution Graphene-based Flexible Electronics via Polymer Casting. <i>Scientific Reports</i> , 2019, 9, 10595.	3.3	26
17	Flexible thermoelectric generators with inkjet-printed bismuth telluride nanowires and liquid metal contacts. <i>Nanoscale</i> , 2019, 11, 5222-5230.	5.6	100
18	Enhanced electrochemical biosensor and supercapacitor with 3D porous architected graphene <i>via</i> salt impregnated inkjet maskless lithography. <i>Nanoscale Horizons</i> , 2019, 4, 735-746.	8.0	43

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19	Porous Wood Monoliths Decorated with Platinum Nano-Urchins as Catalysts for Underwater Micro-Vehicle Propulsion via H_2O_2 Decomposition. ACS Applied Nano Materials, 2019, 2, 4143-4149.	5.0	5
20	Electrochemical cotinine sensing with a molecularly imprinted polymer on a graphene-platinum nanoparticle modified carbon electrode towards cigarette smoke exposure monitoring. Sensors and Actuators B: Chemical, 2019, 287, 165-172.	7.8	32
21	SNAPS: Sensor Analytics Point Solutions for Detection and Decision Support Systems. Sensors, 2019, 19, 4935.	3.8	17
22	Printed Graphene Electrochemical Biosensors Fabricated by Inkjet Maskless Lithography for Rapid and Sensitive Detection of Organophosphates. ACS Applied Materials & Interfaces, 2018, 10, 11125-11134.	8.0	112
23	CIP2A immunosensor comprised of vertically-aligned carbon nanotube interdigitated electrodes towards point-of-care oral cancer screening. Biosensors and Bioelectronics, 2018, 117, 68-74.	10.1	37
24	Advances in Controlling Differentiation of Adult Stem Cells for Peripheral Nerve Regeneration. Advanced Healthcare Materials, 2018, 7, e1701046.	7.6	30
25	Cryoconcentration of flavonoid extract for enhanced biophotovoltaics and pH sensitive thin films. Biotechnology Progress, 2018, 34, 206-217.	2.6	6
26	Flexible Laser-Induced Graphene for Nitrogen Sensing in Soil. ACS Applied Materials & Interfaces, 2018, 10, 39124-39133.	8.0	117
27	Electrochemical Glucose Sensors Enhanced by Methyl Viologen and Vertically Aligned Carbon Nanotube Channels. ACS Applied Materials & Interfaces, 2018, 10, 28351-28360.	8.0	37
28	Electrochemical Immunobiosensors for Point-of-Care Detection of Hypoxia Biomarkers. , 2018, , 257-276.		0
29	Rapid and Label-Free Detection of Interferon Gamma via an Electrochemical Aptasensor Comprising a Ternary Surface Monolayer on a Gold Interdigitated Electrode Array. ACS Sensors, 2017, 2, 210-217.	7.8	71
30	Enabling Inkjet Printed Graphene for Ion Selective Electrodes with Postprint Thermal Annealing. ACS Applied Materials & Interfaces, 2017, 9, 12719-12727.	8.0	59
31	Electrical Differentiation of Mesenchymal Stem Cells into Schwannâ€Cellâ€Like Phenotypes Using Inkjetâ€Printed Graphene Circuits. Advanced Healthcare Materials, 2017, 6, 1601087.	7.6	60
32	Improving sensitivity of electrochemical sensors with convective transport in free-standing, carbon nanotube structures. Sensors and Actuators B: Chemical, 2017, 246, 20-28.	7.8	18
33	Inkjet Printing of Singleâ€Crystalline Bi_2Te_3 Thermoelectric Nanowire Networks. Advanced Electronic Materials, 2017, 3, 1600524.	5.1	48
34	Superhydrophobic inkjet printed flexible graphene circuits <i>via</i> direct-pulsed laser writing. Nanoscale, 2017, 9, 19058-19065.	5.6	29
35	High-Resolution Graphene Films for Electrochemical Sensing <i>via</i> Inkjet Maskless Lithography. ACS Nano, 2017, 11, 9836-9845.	14.6	56
36	Enhanced enzymatic activity from phosphotriesterase trimer gold nanoparticle bioconjugates for pesticide detection. Analyst, The, 2017, 142, 3261-3271.	3.5	33

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37	Synthesis and applications of cellulose nanohybrid materials. , 2017, , 289-320.		4
38	3D nanostructured inkjet printed graphene via UV-pulsed laser irradiation enables paper-based electronics and electrochemical devices. <i>Nanoscale</i> , 2016, 8, 15870-15879.	5.6	108
39	pulSED: pulsed sonoelectrodeposition of fractal nanoplatinum for enhancing amperometric biosensor performance. <i>Analyst</i> , The, 2016, 141, 3367-3378.	3.5	16
40	A paper based graphene-nanocauliflower hybrid composite for point of care biosensing. <i>Biosensors and Bioelectronics</i> , 2016, 85, 479-487.	10.1	91
41	Platinum Nanoparticle Decorated SiO ₂ Microfibers as Catalysts for Micro Unmanned Underwater Vehicle Propulsion. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30941-30947.	8.0	18
42	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.	7.8	25
43	Effect of platinum nanoparticle deposition parameters on hydrogen peroxide transduction for applications in wearable electrochemical glucose biosensors. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
44	Biosensing with Förster Resonance Energy Transfer Coupling between Fluorophores and Nanocarbon Allotropes. <i>Sensors</i> , 2015, 15, 14766-14787.	3.8	29
45	Increasing the activity of immobilized enzymes with nanoparticle conjugation. <i>Current Opinion in Biotechnology</i> , 2015, 34, 242-250.	6.6	228
46	Probing the Enzymatic Activity of Alkaline Phosphatase within Quantum Dot Bioconjugates. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2208-2221.	3.1	62
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, 7791-7803.	14.6	51
48	Hybrid Metallic Nanoparticles: Enhanced Bioanalysis and Biosensing via Carbon Nanotubes, Graphene, and Organic Conjugation. , 2015, , 137-166.		5
49	Modified kinetics of enzymes interacting with nanoparticles. , 2015, , .		1
50	Monitoring enzyme kinetic behavior of enzyme-quantum dot bioconjugates. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
51	Nanomaterial-mediated Biosensors for Monitoring Glucose. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 403-411.	2.2	85
52	Complex Logic Functions Implemented with Quantum Dot Bionanophotonic Circuits. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3771-3778.	8.0	98
53	Platinum-Paper Micromotors: An Urchin-like Nanohybrid Catalyst for Green Monopropellant Bubble-Thrusters. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17837-17847.	8.0	40
54	A triangular three-dye DNA switch capable of reconfigurable molecular logic. <i>RSC Advances</i> , 2014, 4, 48860-48871.	3.6	35

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55	Emerging technologies for non-invasive quantification of physiological oxygen transport in plants. <i>Planta</i> , 2013, 238, 599-614.	3.2	8
56	Biophotonic logic devices based on quantum dots and temporally-staggered Förster energy transfer relays. <i>Nanoscale</i> , 2013, 5, 12156.	5.6	86
57	Enhancing molecular logic through modulation of temporal and spatial constraints with quantum dot-based systems that use fluorescent (Förster) resonance energy transfer. , 2013, ,		2
58	Bacterial Isolation by Lectin-Modified Microengines. <i>Nano Letters</i> , 2012, 12, 396-401.	9.1	300
59	Nanostructuring Platinum Nanoparticles on Multilayered Graphene Petal Nanosheets for Electrochemical Biosensing. <i>Advanced Functional Materials</i> , 2012, 22, 3399-3405.	14.9	199
60	Acoustic Droplet Vaporization and Propulsion of Perfluorocarbon-Loaded Microbullets for Targeted Tissue Penetration and Deformation. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7519-7522.	13.8	277
61	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, 1018-1024.	7.8	42
62	Using Nanotechnology to Improve Lab on a Chip Devices. <i>Journal of Biochips & Tissue Chips</i> , 2012, 02, .	0.2	4
63	Transforming the Fabrication and Biofunctionalization of Gold Nanoelectrode Arrays into Versatile Electrochemical Glucose Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1765-1770.	8.0	48
64	Effects of Carbon Nanotube-Tethered Nanosphere Density on Amperometric Biosensing: Simulation and Experiment. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20896-20904.	3.1	42
65	Microbiosensors based on DNA modified single-walled carbon nanotube and Pt black nanocomposites. <i>Analyst</i> , The, 2011, 136, 4916.	3.5	56
66	A comparative study of enzyme immobilization strategies for multi-walled carbon nanotube glucose biosensors. <i>Nanotechnology</i> , 2011, 22, 355502.	2.6	75
67	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.	6.7	58
68	A self referencing platinum nanoparticle decorated enzyme-based microbiosensor for real time measurement of physiological glucose transport. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2237-2245.	10.1	79
69	Oscillatory glucose flux in INS 1 pancreatic β^2 cells: A self-referencing microbiosensor study. <i>Analytical Biochemistry</i> , 2011, 411, 185-193.	2.4	29
70	A self-referencing glutamate biosensor for measuring real time neuronal glutamate flux. <i>Journal of Neuroscience Methods</i> , 2010, 189, 14-22.	2.5	62
71	Electrochemical Glucose Biosensor of Platinum Nanospheres Connected by Carbon Nanotubes. <i>Journal of Diabetes Science and Technology</i> , 2010, 4, 312-319.	2.2	52
72	Microbial Pathogen Detection Strategies. , 2010, , 1-4.		1

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73	Biosensor Capture Kinetics Model of Nanocube-Augmented Carbon Nanotube Networks. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
74	Electrochemical Biosensor of Nanocube-Augmented Carbon Nanotube Networks. ACS Nano, 2009, 3, 37-44.	14.6	242
75	Independently addressable fields of porous anodic alumina embedded in SiO ₂ on Si. Applied Physics Letters, 2008, 92, 013122.	3.3	19