

Vedran Äerek

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

574
citations

687363

13
h-index

713466

21
g-index

25
all docs

25
docs citations

25
times ranked

705
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Electrical Neurostimulation with Organic Pigment Photocapacitors. <i>Advanced Materials</i> , 2018, 30, e1707292.	21.0	109
2	Optoelectronic control of single cells using organic photocapacitors. <i>Science Advances</i> , 2019, 5, eaav5265.	10.3	82
3	Chronic electrical stimulation of peripheral nerves via deep-red light transduced by an implanted organic photocapacitor. <i>Nature Biomedical Engineering</i> , 2022, 6, 741-753.	22.5	59
4	Porous Silicon Covered with Silver Nanoparticles as Surface-Enhanced Raman Scattering (SERS) Substrate for Ultra-Low Concentration Detection. <i>Applied Spectroscopy</i> , 2015, 69, 1417-1424.	2.2	45
5	Aqueous photo(electro)catalysis with eumelanin thin films. <i>Materials Horizons</i> , 2018, 5, 984-990.	12.2	31
6	Wireless organic electronic ion pumps driven by photovoltaics. <i>Npj Flexible Electronics</i> , 2019, 3, .	10.7	31
7	Untangling Photofaradaic and Photocapacitive Effects in Organic Optoelectronic Stimulation Devices. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 284.	4.1	30
8	Organic semiconductor perylenetetracarboxylic diimide (PTCDI) electrodes for electrocatalytic reduction of oxygen to hydrogen peroxide. <i>Chemical Communications</i> , 2018, 54, 1960-1963.	4.1	29
9	Understanding Photocapacitive and Photofaradaic Processes in Organic Semiconductor Photoelectrodes for Optobioelectronics. <i>Advanced Functional Materials</i> , 2021, 31, 2010116.	14.9	26
10	Extracellular Photovoltage Clamp Using Conducting Polymer-Modified Organic Photocapacitors. <i>Advanced Materials Technologies</i> , 2020, 5, 1900860.	5.8	23
11	Influence of mesoporous silicon preparation condition on silver clustering and SERS enhancement. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1036-1041.	2.5	18
12	Phonon confinement effects in Raman spectra of porous silicon at non-resonant excitation condition. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 470-475.	2.5	16
13	Enhanced near-infrared response of nano- and microstructured silicon/organic hybrid photodetectors. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	16
14	Structure and optical properties of porous silicon prepared on thin epitaxial silicon layer on silicon substrates. <i>Journal of Molecular Structure</i> , 2007, 834-836, 465-470.	3.6	12
15	Scalable Microfabrication of Folded Parylene-Based Conductors for Stretchable Electronics. <i>Advanced Electronic Materials</i> , 2021, 7, 2001236.	5.1	10
16	Charge transport in phthalocyanine thin-film transistors coupled with Fabry-Perot cavities. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2368-2374.	5.5	8
17	Micropatterning of organic electronic materials using a facile aqueous photolithographic process. <i>AIP Advances</i> , 2018, 8, 105116.	1.3	7
18	Light Stimulation of Neurons on Organic Photocapacitors Induces Action Potentials with Millisecond Precision. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	7

#	ARTICLE	IF	CITATIONS
19	Micro and Nano Structure of Electrochemically Etched Silicon Epitaxial Wafers. Croatica Chemica Acta, 2012, , 101-106.	0.4	1
20	Acoustic vibrations of amorphous and crystalline ZrO ₂ –TiO ₂ nanoparticles. Journal of Molecular Structure, 2014, 1073, 119-124.	3.6	1
21	Nanoporous silicon tubes: the role of geometry in nanostructure formation and application to light emitting diodes. Journal Physics D: Applied Physics, 2017, 50, 265101.	2.8	1
22	Neurostimulation: Direct Electrical Neurostimulation with Organic Pigment Photocapacitors (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	0
23	Micropyramid structured photo capacitive interfaces. Nanotechnology, 2022, 33, 245302.	2.6	0