# Vedran Äerek

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Chronic electrical stimulation of peripheral nerves via deep-red light transduced by an implanted organic photocapacitor. Nature Biomedical Engineering, 2022, 6, 741-753. | 22.5 | 59 |
| 2 | Light Stimulation of Neurons on Organic Photocapacitors Induces Action Potentials with Millisecond Precision. Advanced Materials Technologies, 2022, 7, . | 5.8 | 7 |
| 3 | Micropyramid structured photo capacitive interfaces. Nanotechnology, 2022, 33, 245302. | 2.6 | 0 |
| 4 | Charge transport in phthalocyanine thin-film transistors coupled with Fabryâ€“Perot cavities. Journal of Materials Chemistry C, 2021, 9, 2368-2374. | 5.5 | 8 |
| 5 | Understanding Photocapacitive and Photofaradaic Processes in Organic Semiconductor Photoelectrodes for Optobioelectronics. Advanced Functional Materials, 2021, 31, 2010116. | 14.9 | 26 |
| 6 | Scalable Microfabrication of Folded Paryleneâ€Based Conductors for Stretchable Electronics. Advanced Electronic Materials, 2021, 7, 2001236. | 5.1 | 10 |
| 7 | Untangling Photofaradaic and Photocapacitive Effects in Organic Optoelectronic Stimulation Devices. Frontiers in Bioengineering and Biotechnology, 2020, 8, 284. | 4.1 | 30 |
| 8 | Extracellular Photovoltage Clamp Using Conducting Polymerâ€Modified Organic Photocapacitors. Advanced Materials Technologies, 2020, 5, 1900860. | 5.8 | 23 |
| 9 | Wireless organic electronic ion pumps driven by photovoltaics. Npj Flexible Electronics, 2019, 3, . | 10.7 | 31 |
| 10 | Optoelectronic control of single cells using organic photocapacitors. Science Advances, 2019, 5, eaav5265. | 10.3 | 82 |
| 11 | Organic semiconductor perylenetetracarboxylic diimide (PTCDI) electrodes for electrocatalytic reduction of oxygen to hydrogen peroxide. Chemical Communications, 2018, 54, 1960-1963. | 4.1 | 29 |
| 12 | Direct Electrical Neurostimulation with Organic Pigment Photocapacitors. Advanced Materials, 2018, 30, e1707292. | 21.0 | 109 |
| 13 | Micropatterning of organic electronic materials using a facile aqueous photolithographic process. AIP Advances, 2018, 8, 105116. | 1.3 | 7 |
| 14 | Aqueous photo(electro)catalysis with eumelanin thin films. Materials Horizons, 2018, 5, 984-990. | 12.2 | 31 |
| 15 | Neurostimulation: Direct Electrical Neurostimulation with Organic Pigment Photocapacitors (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlo | 21.0 | 0 |
| 16 | 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 |
| 17 | Influence of mesoporous silicon preparation condition on silver clustering and SERS enhancement. Journal of Raman Spectroscopy, 2016, 47, 1036-1041. | 2.5 | 18 |
| 18 | Porous Silicon Covered with Silver Nanoparticles as Surface-Enhanced Raman Scattering (SERS) Substrate for Ultra-Low Concentration Detection. Applied Spectroscopy, 2015, 69, 1417-1424. | 2.2 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Enhanced near-infrared response of nano- and microstructured silicon/organic hybrid photodetectors. Applied Physics Letters, 2015, 107, . | 3.3 | 16 |
| 20 | Phonon confinement effects in Raman spectra of porous silicon at nonâ€resonant excitation condition. Journal of Raman Spectroscopy, 2014, 45, 470-475. | 2.5 | 16 |
| 21 | Acoustic vibrations of amorphous and crystalline ZrO2â€“TiO2 nanoparticles. Journal of Molecular Structure, 2014, 1073, 119-124. | 3.6 | 1 |
| 22 | Micro and Nano Structure of Electrochemically Etched Silicon Epitaxial Wafers. Croatica Chemica Acta, 2012, , 101-106. | 0.4 | 1 |
| 23 | Structure and optical properties of porous silicon prepared on thin epitaxial silicon layer on silicon substrates. Journal of Molecular Structure, 2007, 834-836, 465-470. | 3.6 | 12 |