

Aleix G GÃ¼ell

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,038
citations

331538

21
h-index

580701

25
g-index

25
all docs

25
docs citations

25
times ranked

2425
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Scanning Electrochemical Cell Microscopy: A Versatile Technique for Nanoscale Electrochemistry and Functional Imaging. <i>Annual Review of Analytical Chemistry</i> , 2013, 6, 329-351. | 2.8 | 252 |
| 2 | Scanning Electrochemical Cell Microscopy: Theory and Experiment for Quantitative High Resolution Spatially-Resolved Voltammetry and Simultaneous Ion-Conductance Measurements. <i>Analytical Chemistry</i> , 2012, 84, 2483-2491. | 3.2 | 211 |
| 3 | Nanoscale Electrochemistry of sp^2 Carbon Materials: From Graphite and Graphene to Carbon Nanotubes. <i>Accounts of Chemical Research</i> , 2016, 49, 2041-2048. | 7.6 | 188 |
| 4 | Structural Correlations in Heterogeneous Electron Transfer at Monolayer and Multilayer Graphene Electrodes. <i>Journal of the American Chemical Society</i> , 2012, 134, 7258-7261. | 6.6 | 157 |
| 5 | Redox-Dependent Spatially Resolved Electrochemistry at Graphene and Graphite Step Edges. <i>ACS Nano</i> , 2015, 9, 3558-3571. | 7.3 | 152 |
| 6 | Nanoscale Electrocatalysis: Visualizing Oxygen Reduction at Pristine, Kinked, and Oxidized Sites on Individual Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2014, 136, 11252-11255. | 6.6 | 139 |
| 7 | Lithographically Patterned Nanowire Electrodeposition: A Method for Patterning Electrically Continuous Metal Nanowires on Dielectrics. <i>ACS Nano</i> , 2008, 2, 1939-1949. | 7.3 | 133 |
| 8 | Versatile Polymer-Free Graphene Transfer Method and Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8008-8016. | 4.0 | 95 |
| 9 | Quantitative nanoscale visualization of heterogeneous electron transfer rates in 2D carbon nanotube networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11487-11492. | 3.3 | 93 |
| 10 | Mapping Nanoscale Electrochemistry of Individual Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2014, 14, 220-224. | 4.5 | 83 |
| 11 | Trace voltammetric detection of serotonin at carbon electrodes: comparison of glassy carbon, boron doped diamond and carbon nanotube network electrodes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10108. | 1.3 | 81 |
| 12 | Spatial and Temporal Control of the Diazonium Modification of sp^2 Carbon Surfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 36-39. | 6.6 | 80 |
| 13 | Electrochemistry at highly oriented pyrolytic graphite (HOPG): lower limit for the kinetics of outer-sphere redox processes and general implications for electron transfer models. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11827-11838. | 1.3 | 53 |
| 14 | Quad-Barrel Multifunctional Electrochemical and Ion Conductance Probe for Voltammetric Analysis and Imaging. <i>Analytical Chemistry</i> , 2015, 87, 3566-3573. | 3.2 | 51 |
| 15 | Boron doped diamond ultramicroelectrodes: a generic platform for sensing single nanoparticle electrocatalytic collisions. <i>Chemical Communications</i> , 2013, 49, 5657. | 2.2 | 50 |
| 16 | Preparation of Reliable Probes for Electrochemical Tunneling Spectroscopy. <i>Analytical Chemistry</i> , 2004, 76, 5218-5222. | 3.2 | 41 |
| 17 | Tunable Two-Photon Excited Luminescence in Single Gold Nanowires Fabricated by Lithographically Patterned Nanowire Electrodeposition. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12721-12727. | 1.5 | 38 |
| 18 | Electrochemistry at carbon nanotube forests: sidewalls and closed ends allow fast electron transfer. <i>Chemical Communications</i> , 2012, 48, 7435. | 2.2 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Nanomechanics of silicon surfaces with atomic force microscopy: An insight to the first stages of plastic deformation. <i>Journal of Chemical Physics</i> , 2005, 123, 114711. | 1.2 | 30 |
| 20 | Coupled Electrooxidation and Electrical Conduction in a Single Gold Nanowire. <i>Nano Letters</i> , 2008, 8, 3017-3022. | 4.5 | 30 |
| 21 | Conductance Maps by Electrochemical Tunneling Spectroscopy To Fingerprint the Electrode Electronic Structure. <i>Analytical Chemistry</i> , 2006, 78, 7325-7329. | 3.2 | 23 |
| 22 | Selection, characterisation and mapping of complex electrochemical processes at individual single-walled carbon nanotubes: the case of serotonin oxidation. <i>Faraday Discussions</i> , 2014, 172, 439-455. | 1.6 | 17 |
| 23 | Role of surface contaminants, functionalities, defects and electronic structure: general discussion. <i>Faraday Discussions</i> , 2014, 172, 365-395. | 1.6 | 1 |
| 24 | Carbon electrode interfaces for synthesis, sensing and electrocatalysis: general discussion. <i>Faraday Discussions</i> , 2014, 172, 497-520. | 1.6 | 1 |