

# Mark Greiner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4484997/publications.pdf>

Version: 2024-02-01

46  
papers

4,318  
citations

257450

24  
h-index

254184

43  
g-index

47  
all docs

47  
docs citations

47  
times ranked

7668  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Universal energy-level alignment of molecules on metal oxides. <i>Nature Materials</i> , 2012, 11, 76-81.  | 27.5 | 836       |
| 2  | Transition Metal Oxide Work Functions: The Influence of Cation Oxidation State and Oxygen Vacancies. <i>Advanced Functional Materials</i> , 2012, 22, 4557-4568.   | 14.9 | 694       |
| 3  | Free-atom-like d states in single-atom alloy catalysts. <i>Nature Chemistry</i> , 2018, 10, 1008-1015.   | 13.6 | 368       |
| 4  | Unlocking the full potential of organic light-emitting diodes on flexible plastic. <i>Nature Photonics</i> , 2011, 5, 753-757.   | 31.4 | 362       |
| 5  | Metal/Metal <sup>3</sup> Oxide Interfaces: How Metal Contacts Affect the Work Function and Band Structure of MoO <sub>3</sub> . <i>Advanced Functional Materials</i> , 2013, 23, 215-226.                                  | 14.9 | 326       |
| 6  | Thin-film metal oxides in organic semiconductor devices: their electronic structures, work functions and interfaces. <i>NPG Asia Materials</i> , 2013, 5, e55-e55.   | 7.9  | 322       |
| 7  | The electronic structure of iridium oxide electrodes active in water splitting. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2292-2296.  | 2.8  | 302       |
| 8  | Work function of fluorine doped tin oxide. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011, 29, .   | 2.1  | 163       |
| 9  | Highly simplified phosphorescent organic light emitting diode with >20% external quantum efficiency at >10,000 cd/m <sup>2</sup> . <i>Applied Physics Letters</i> , 2011, 98, .  | 3.3  | 100       |
| 10 | FAIR data enabling new horizons for materials research. <i>Nature</i> , 2022, 604, 635-642.  | 27.8 | 81        |
| 11 | The Selective Species in Ethylene Epoxidation on Silver. <i>ACS Catalysis</i> , 2018, 8, 3844-3852.  | 11.2 | 62        |
| 12 | Carrier mobility of organic semiconductors based on current-voltage characteristics. <i>Journal of Applied Physics</i> , 2010, 107, .  | 2.5  | 61        |
| 13 | Pd@H <sub>2</sub> WO <sub>3</sub> Nanowires Efficiently Catalyze the CO <sub>2</sub> Heterogeneous Reduction Reaction with a Pronounced Light Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5610-5615. | 8.0  | 52        |
| 14 | Direct hole injection in to 4,4'-N,N'-dicarbazole-biphenyl: A simple pathway to achieve efficient organic light emitting diodes. <i>Journal of Applied Physics</i> , 2010, 108, .  | 2.5  | 48        |
| 15 | Controlling carrier accumulation and exciton formation in organic light emitting diodes. <i>Applied Physics Letters</i> , 2010, 96, 043303.  | 3.3  | 47        |
| 16 | The oxidation of copper catalysts during ethylene epoxidation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25073-25089.   | 2.8  | 43        |
| 17 | Ethylene Epoxidation at the Phase Transition of Copper Oxides. <i>Journal of the American Chemical Society</i> , 2017, 139, 11825-11832.   | 13.7 | 42        |
| 18 | Depleted-heterojunction colloidal quantum dot photovoltaics employing low-cost electrical contacts. <i>Applied Physics Letters</i> , 2010, 97, 023109.   | 3.3  | 39        |

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|----|--|------|-----------|
| 19 | Effect of electrostatic screening on apparent shifts in photoemission spectra near metal/organic interfaces. <i>Physical Review B</i> , 2010, 81, .  | 3.2  | 35        |
| 20 | Optical design of organic light emitting diodes. <i>Journal of Applied Physics</i> , 2011, 109, 053107.  | 2.5  | 35        |
| 21 | Phase Coexistence of Multiple Copper Oxides on AgCu Catalysts during Ethylene Epoxidation. <i>ACS Catalysis</i> , 2018, 8, 2286-2295.  | 11.2 | 34        |
| 22 | The effect of UV ozone treatment on poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate). <i>Applied Physics Letters</i> , 2009, 95, 173302.  | 3.3  | 29        |
| 23 | In situ observation of oscillatory redox dynamics of copper. <i>Nature Communications</i> , 2020, 11, 3554.  | 12.8 | 27        |
| 24 | Energy-level alignment and charge injection at metal/C60/organic interfaces. <i>Applied Physics Letters</i> , 2009, 95, 043302.  | 3.3  | 25        |
| 25 | Oxygen-Doped Carbon Supports Modulate the Hydrogenation Activity of Palladium Nanoparticles through Electronic Metal-Support Interactions. <i>ACS Catalysis</i> , 2022, 12, 7344-7356.                           | 11.2 | 22        |
| 26 | A discussion of approaches for fitting asymmetric signals in X-ray photoelectron spectroscopy (XPS), noting the importance of Voigt-like peak shapes. <i>Surface and Interface Analysis</i> , 2021, 53, 689-707. | 1.8  | 20        |
| 27 | Probing catalytic surfaces by correlative scanning photoemission electron microscopy and atom probe tomography. <i>Journal of Materials Chemistry A</i> , 2020, 8, 388-400.                                      | 10.3 | 19        |
| 28 | Substrate dependent charge injection at the V2O5/organic interface. <i>Applied Physics Letters</i> , 2009, 95, .   | 3.3  | 14        |
| 29 | Transfer-arm evaporator cell for rapid loading and deposition of organic thin films. <i>Review of Scientific Instruments</i> , 2009, 80, 125101.   | 1.3  | 12        |
| 30 | High Catalytic Synergism between the Components of the Rhenium Complex@Silver Hybrid Material in Alkene Epoxidations. <i>ChemCatChem</i> , 2014, 6, 1935-1939.   | 3.7  | 12        |
| 31 | Method to correct ambient pressure XPS for the distortion caused by the gas. <i>Applied Surface Science</i> , 2020, 530, 147243.   | 6.1  | 11        |
| 32 | Near ambient pressure photoelectron spectro-microscopy: from gas-solid interface to operando devices. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 204004.  | 2.8  | 11        |
| 33 | Isolated Pd atoms in a silver matrix: Spectroscopic and chemical properties. <i>Journal of Chemical Physics</i> , 2021, 154, 184703.   | 3.0  | 10        |
| 34 | Effects of interfacial oxide layers of the electrode metals on the electrical characteristics of organic thin-film transistors with HfO2 gate dielectric. <i>Journal of Applied Physics</i> , 2011, 110, 044108. | 2.5  | 9         |
| 35 | Formation of a 2D Meta-stable Oxide by Differential Oxidation of AgCu Alloys. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 23595-23605.   | 8.0  | 9         |
| 36 | Band alignment at the hybrid heterojunction between S-passivated III-V semiconductors and C60. <i>Journal of Applied Physics</i> , 2009, 106, 056105.  | 2.5  | 8         |

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|----|---|-----|-----------|
| 37 | Inelastic electron scattering by the gas phase in near ambient pressure XPS measurements. Surface and Interface Analysis, 2021, 53, 605-617.  | 1.8 | 8         |
| 38 | UV ozone passivation of the metal/dielectric interface for HfO <sub>2</sub> -based organic thin film transistors. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 1100-1103. | 1.2 | 7         |
| 39 | Surface composition of AgPd single-atom alloy catalyst in an oxidative environment. Journal of Chemical Physics, 2021, 154, 174708.   | 3.0 | 4         |
| 40 | Comparison of CuPc-based organic thin-film transistors made by different dielectric structures. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, 012201.                      | 1.2 | 3         |
| 41 | Monitoring the Dynamics of Heterogeneous Catalysts by Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 736-737.   | 0.4 | 2         |
| 42 | Multi-Scale Red-Ox Dynamics of Active Metal Catalysts Revealed by a Combination of <i>In Situ</i> Scanning and Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 922-923.                       | 0.4 | 2         |
| 43 | Improved characteristics for OTFT with HfO <sub>2</sub> gate dielectric by using chlorinated indium tin oxide gate electrode. , 2016, , .   |     | 1         |
| 44 | The ESEM as In Situ Platform for the Study of Gas-Solid Interactions. Microscopy and Microanalysis, 2018, 24, 344-345.  | 0.4 | 1         |
| 45 | Effects of different Ar/O <sub>2</sub> ratios on the electrical properties of CuPc-based TFTs with ZrO <sub>2</sub> gate dielectric. , 2011, , .  |     | 0         |
| 46 | Thermal annealing effect on electrical characteristics of CuPc thin-film transistors on glass with ZrO <sub>2</sub> as gate dielectric. , 2015, , .   |     | 0         |