

Oliver L A Monti

List of Publications by Year in descending order

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48
papers

1,728
citations

430874

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times ranked

3218
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond Simple Structure-Function Relationships: The Interplay of Geometry, Electronic Structure, and Molecule/Electrode Coupling in Single-Molecule Junctions. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6653-6661.	3.1	3
2	Correlated Energy-Level Alignment Effects Determine Substituent-Tuned Single-Molecule Conductance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4267-4277.	8.0	11
3	Temperature dependent moiré trapping of interlayer excitons in MoSe ₂ -WSe ₂ heterostructures. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	7.9	20
4	Grid-Based Correlation Analysis to Identify Rare Quantum Transport Behaviors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18297-18307.	3.1	3
5	Phenalenyls as tunable excellent molecular conductors and switchable spin filters. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24106-24110.	2.8	10
6	Ultrafast Carrier Dynamics in Two-Dimensional Electron Gas-like K-Doped MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 19187-19195.	3.1	0
7	Unsupervised Segmentation-Based Machine Learning as an Advanced Analysis Tool for Single Molecule Break Junction Data. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18302-18315.	3.1	17
8	H ₂ Pc and pentacene on Cu(110)-(2×1)O: A combined STM and nc-AFM study. <i>Surface Science</i> , 2020, 696, 121590.	1.9	4
9	Coupled 2D Semiconductor-Molecular Excitons with Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27637-27644.	3.1	5
10	The role of initial and final states in molecular spectroscopies. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12730-12747.	2.8	14
11	Structurally induced large changes of the energy level alignment in CuPc on CuO. <i>Physical Review B</i> , 2018, 98, .	1.0	1
12	van der Waals Interaction Activated Strong Electronic Coupling at the Interface between Chloro Boron-Subphthalocyanine and Cu(111). <i>Journal of Physical Chemistry C</i> , 2018, 122, 14621-14630.	3.1	6
13	Uncovering hierarchical data structure in single molecule transport. <i>Journal of Chemical Physics</i> , 2017, 146, .	3.0	18
14	Fast sensitive amplifier for two-probe conductance measurements in single molecule break junctions. <i>Review of Scientific Instruments</i> , 2017, 88, 033904.	1.3	6
15	Ensemble Control of Kondo Screening in Molecular Adsorbates. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1837-1844.	4.6	11
16	Anisotropic attosecond charge carrier dynamics and layer decoupling in quasi-2D layered SnS ₂ . <i>Nature Communications</i> , 2017, 8, 1369.	12.8	27
17	Configuration-specific electronic structure of strongly interacting interfaces: TiOPc on Cu(110). <i>Physical Review B</i> , 2017, 96, .	3.2	7
18	Hybridization-Induced Carrier Localization at the C ₆₀ /ZnO Interface. <i>Advanced Materials</i> , 2016, 28, 3960-3965.	21.0	13

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19	Valence and conduction band structure of the quasi-two-dimensional semiconductor SnS_2 . Physical Review B, 2016, 93, .	3.2	11
20	Spectroscopy and control of near-surface defects in conductive thin film ZnO. Journal of Physics Condensed Matter, 2016, 28, 094007.	1.8	14
21	Sticking with the Pointy End? Molecular Configuration of Chloro Boron-Subphthalocyanine on Cu(111). Journal of Physical Chemistry C, 2016, 120, 7113-7121.	3.1	11
22	Selective Cooperative Self-Assembly between an Organic Semiconductor and Native Adatoms on Cu(110). Journal of Physical Chemistry C, 2015, 119, 27416-27425.	3.1	11
23	Integer Charge Transfer and Hybridization at an Organic Semiconductor/Conductive Oxide Interface. Journal of Physical Chemistry C, 2015, 119, 4865-4873.	3.1	59
24	Disrupted Attosecond Charge Carrier Delocalization at a Hybrid Organic/Inorganic Semiconductor Interface. Journal of Physical Chemistry Letters, 2015, 6, 1935-1941.	4.6	16
25	Controlling the Spin Texture of Topological Insulators by Rational Design of Organic Molecules. Nano Letters, 2015, 15, 6022-6029.	9.1	37
26	Interplay of local and global interfacial electronic structure of a strongly coupled dipolar organic semiconductor. Physical Review B, 2014, 90, .	3.2	15
27	Defect-Driven Interfacial Electronic Structures at an Organic/Metal-Oxide Semiconductor Heterojunction. Advanced Materials, 2014, 26, 4711-4716.	21.0	46
28	Tin Disulfide—An Emerging Layered Metal Dichalcogenide Semiconductor: Materials Properties and Device Characteristics. ACS Nano, 2014, 8, 10743-10755.	14.6	449
29	Tailoring Electron-Transfer Barriers for Zinc Oxide/ C_{60} Fullerene Interfaces. Advanced Functional Materials, 2014, 24, 7381-7389.	14.9	54
30	Persistent non-equilibrium interface dipoles at quasi-2D organic/inorganic semiconductor interfaces: The effect of gap states. Surface Science, 2014, 630, 136-143.	1.9	10
31	Spin-dependent trapping of electrons at interfaces. Nature Physics, 2013, 9, 242-247.	16.7	147
32	Electronic structure and dynamics of quasi-2D states of vanadyl naphthalocyanine on Au(111). Molecular Physics, 2013, 111, 2175-2188.	1.7	8
33	Zinc Oxide as a Model Transparent Conducting Oxide: A Theoretical and Experimental Study of the Impact of Hydroxylation, Vacancies, Interstitials, and Extrinsic Doping on the Electronic Properties of the Polar ZnO (0002) Surface. Chemistry of Materials, 2012, 24, 3044-3055.	6.7	110
34	Understanding Interfacial Electronic Structure and Charge Transfer: An Electrostatic Perspective. Journal of Physical Chemistry Letters, 2012, 3, 2342-2351.	4.6	84
35	Interfacial Electronic Structure of the Dipolar Vanadyl Naphthalocyanine on Au(111): "Push-Back" vs Dipolar Effects. Journal of Physical Chemistry C, 2011, 115, 21128-21138.	3.1	40
36	Kinetic Studies of the Photogeneration of Silver Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 9861-9870.	3.1	11

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37	Resonance and localization effects at a dipolar organic semiconductor interface. Journal of Chemical Physics, 2011, 135, 124702.	3.0	12
38	Interfacial electronic structure of vanadyl naphthalocyanine on highly ordered pyrolytic graphite. Surface Science, 2010, 604, 1649-1657.	1.9	18
39	Image states at the interface with a dipolar organic semiconductor. Journal of Chemical Physics, 2010, 133, 124701.	3.0	17
40	Synthesis and Colloidal Polymerization of Ferromagnetic Au ³⁺ Co Nanoparticles into Au ₃ Co ₄ Nanowires. Journal of the American Chemical Society, 2010, 132, 3234-3235.	13.7	109
41	Experimental Determination of the Excited-State Polarizability and Dipole Moment in a Thin Organic Semiconductor Film. Journal of Physical Chemistry Letters, 2010, 1, 2011-2016.	4.6	22
42	Influence of electrostatic fields on molecular electronic structure: insights for interfacial charge transfer. Physical Chemistry Chemical Physics, 2010, 12, 12390.	2.8	29
43	Near- and Far-Field Effects on Molecular Energy Level Alignment at an Organic/Electrode Interface. Journal of Physical Chemistry Letters, 2010, 1, 145-148.	4.6	38
44	Confocal single molecule fluorescence spectroscopy in ultrahigh vacuum. Review of Scientific Instruments, 2009, 80, 103101.	1.3	6
45	Single molecule power-law behavior on a crystalline surface. Journal of Chemical Physics, 2009, 131, 124702.	3.0	17
46	Imaging nanostructures with scanning photoionization microscopy. Journal of Chemical Physics, 2006, 125, 154709.	3.0	20
47	Diffraction-Limited Photogeneration and Characterization of Silver Nanoparticles. Journal of Physical Chemistry B, 2004, 108, 1604-1612.	2.6	96
48	Vibrational spectra and intramolecular vibrational redistribution in highly excited deuterobromochlorofluoromethane CDBrClF: Experiment and theory. Journal of Chemical Physics, 2000, 113, 2701-2718.	3.0	33