

Melanie Timpel

List of Publications by Year in descending order

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29
papers

1,045
citations

393982

19
h-index

433756

31
g-index

31
all docs

31
docs citations

31
times ranked

1569
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of strontium in modifying aluminium-silicon alloys. <i>Acta Materialia</i> , 2012, 60, 3920-3928.	3.8	292
2	Surface Modification of ZnO(0001)-Zn with Phosphonate-Based Self-Assembled Monolayers: Binding Modes, Orientation, and Work Function. <i>Chemistry of Materials</i> , 2014, 26, 5042-5050.	3.2	66
3	3D Visualisation of PEMFC Electrode Structures Using FIB Nanotomography. <i>Fuel Cells</i> , 2010, 10, 966-972.	1.5	53
4	Collective molecular switching in hybrid superlattices for light-modulated two-dimensional electronics. <i>Nature Communications</i> , 2018, 9, 2661.	5.8	53
5	Tuning the Work Function of Graphene-on-Quartz with a High Weight Molecular Acceptor. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4784-4790.	1.5	50
6	Three-dimensional visualization of the microstructure development of Sr-modified Al ₁₅ Si casting alloy using FIB-EsB tomography. <i>Acta Materialia</i> , 2010, 58, 6600-6608.	3.8	45
7	Microstructural investigation of Sr-modified Al ₁₅ wt%Si alloys in the range from micrometer to atomic scale. <i>Ultramicroscopy</i> , 2011, 111, 695-700.	0.8	41
8	Distribution of Fe-rich phases in eutectic grains of Sr-modified Al ₁₀ wt.% Si _{0.1} wt.% Fe casting alloy. <i>Journal of Alloys and Compounds</i> , 2013, 558, 18-25.	2.8	36
9	Sr-Al ₁₀ Si co-segregated regions in eutectic Si phase of Sr-modified Al ₁₀ Si alloy. <i>Ultramicroscopy</i> , 2013, 132, 216-221.	0.8	36
10	Tuning the Electronic Structure of Graphene by Molecular Dopants: Impact of the Substrate. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19134-19144.	4.0	34
11	Boosting and Balancing Electron and Hole Mobility in Single- and Bilayer WSe ₂ Devices via Tailored Molecular Functionalization. <i>ACS Nano</i> , 2019, 13, 11613-11622.	7.3	34
12	Energy-Level Engineering at ZnO/Oligophenylene Interfaces with Phosphonate-Based Self-Assembled Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11900-11907.	4.0	33
13	2D-MoS ₂ goes 3D: transferring optoelectronic properties of 2D MoS ₂ to a large-area thin film. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	31
14	Effective Work Function Reduction of Practical Electrodes Using an Organometallic Dimer. <i>Advanced Functional Materials</i> , 2016, 26, 2493-2502.	7.8	28
15	Dynamic Photoswitching of Electron Energy Levels at Hybrid ZnO/Organic Photochromic Molecule Junctions. <i>Advanced Functional Materials</i> , 2018, 28, 1800716.	7.8	26
16	Electrode Work Function Engineering with Phosphonic Acid Monolayers and Molecular Acceptors: Charge Redistribution Mechanisms. <i>Advanced Functional Materials</i> , 2018, 28, 1704438.	7.8	25
17	Versatile and Scalable Strategy To Grow Sol-Gel Derived 2H-MoS ₂ Thin Films with Superior Electronic Properties: A Memristive Case. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34392-34400.	4.0	22
18	Modification of Mo-Si alloy microstructure by small additions of Zr. <i>Ultramicroscopy</i> , 2011, 111, 706-710.	0.8	21

#	ARTICLE	IF	CITATIONS
19	Electronic structure of CuTPP and CuTPP(F) complexes: a combined experimental and theoretical study II. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24890-24904.	1.3	19
20	Tailoring Superconductivity in Large-Area Single-Layer NbSe ₂ via Self-Assembled Molecular Adlayers. <i>Nano Letters</i> , 2021, 21, 136-143.	4.5	19
21	Electronic structures of CuTPP and CuTPP(F) complexes. A combined experimental and theoretical study I. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18727-18738.	1.3	16
22	Impact of Molecular Dipole Moments on Fermi Level Pinning in Thin Films. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11731-11737.	1.5	14
23	Functionalization of SiC/SiO _x nanowires with a porphyrin derivative: a hybrid nanosystem for X-ray induced singlet oxygen generation. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 165-172.	1.7	11
24	Enhancement of X-ray-Excited Red Luminescence of Chromium-Doped Zinc Gallate via Ultrasmall Silicon Carbide Nanocrystals. <i>Chemistry of Materials</i> , 2021, 33, 2457-2465.	3.2	9
25	Polarity of pulsed laser deposited ZnO nanostructures. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	6
26	A novel combined experimental and multiscale theoretical approach to unravel the structure of SiC/SiO _x core/shell nanowires for their optimal design. <i>Nanoscale</i> , 2018, 10, 13449-13461.	2.8	5
27	Synthesis of MoS ₂ Thin Film by Ionized Jet Deposition: Role of Substrate and Working Parameters. <i>Surfaces</i> , 2020, 3, 683-693.	1.0	4
28	Unravelling Work Function Contributions and Their Engineering in 2H-MoS ₂ Single Crystal Discovered by Molecular Probe Interaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6732-6740.	1.5	4
29	Oligothiophene-Based Phosphonates for Surface Modification of Ultraflat Transparent Conductive Oxides. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902114.	1.9	2