

Jian-Qiang Zhong

List of Publications by Year in descending order

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53
papers

1,918
citations

257101

24
h-index

253896

43
g-index

53
all docs

53
docs citations

53
times ranked

4000
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of Supercapacitor Electrodes through Selection of Graphene Surface Functionalities. ACS Nano, 2012, 6, 5941-5951.	7.3	310
2	Towards single molecule switches. Chemical Society Reviews, 2015, 44, 2998-3022.	18.7	306
3	Tuning the Dirac Point in CVD-Grown Graphene through Solution Processed n-Type Doping with 2-(2-Methoxyphenyl)-1,3-dimethyl-2,3-dihydro-1 <i>H</i> -benzimidazole. Nano Letters, 2013, 13, 1890-1897.	4.5	129
4	Dynamic Oxygen on Surface: Catalytic Intermediate and Coking Barrier in the Modeled CO ₂ Reforming of CH ₄ on Ni (111). ACS Catalysis, 2016, 6, 4330-4339.	5.5	93
5	Modulating electronic transport properties of MoS ₂ field effect transistor by surface overlayers. Applied Physics Letters, 2013, 103, .	1.5	88
6	Operando high-pressure investigation of size-controlled CuZn catalysts for the methanol synthesis reaction. Nature Communications, 2021, 12, 1435.	5.8	62
7	Electronic Structure, Chemical Interactions and Molecular Orientations of 3,4,9,10-Perylene-tetracarboxylic-dianhydride on TiO ₂ (110). Journal of Physical Chemistry C, 2011, 115, 24880-24887.	1.5	50
8	The role of gap states in the energy level alignment at the organic-organic heterojunction interfaces. Physical Chemistry Chemical Physics, 2012, 14, 14127.	1.3	47
9	Oxidation and Reduction under Cover: Chemistry at the Confined Space between Ultrathin Nanoporous Silicates and Ru(0001). Journal of Physical Chemistry C, 2016, 120, 8240-8245.	1.5	44
10	Interaction of Hydrogen with Ceria: Hydroxylation, Reduction, and Hydride Formation on the Surface and in the Bulk. Chemistry - A European Journal, 2021, 27, 5268-5276.	1.7	44
11	Ionization potential dependent air exposure effect on the MoO ₃ /organic interface energy level alignment. Organic Electronics, 2012, 13, 2793-2800.	1.4	43
12	Effect of Gap States on the Orientation-Dependent Energy Level Alignment at the DIP/F ₁₆ CuPc Donor-Acceptor Heterojunction Interfaces. Journal of Physical Chemistry C, 2011, 115, 23922-23928.	1.5	40
13	Mildly O ₂ plasma treated CVD graphene as a promising platform for molecular sensing. Carbon, 2014, 76, 212-219.	5.4	39
14	High performance vertical tunneling diodes using graphene/hexagonal boron nitride/graphene hetero-structure. Applied Physics Letters, 2014, 104, 053103.	1.5	35
15	Energy Level Realignment in Weakly Interacting Donor-Acceptor Binary Molecular Networks. ACS Nano, 2014, 8, 1699-1707.	7.3	35
16	Energy Level Shifts at the Silica/Ru(0001) Heterojunction Driven by Surface and Interface Dipoles. Topics in Catalysis, 2017, 60, 481-491.	1.3	32
17	CVD Graphene as Interfacial Layer to Engineer the Organic Donor-Acceptor Heterojunction Interface Properties. ACS Applied Materials & Interfaces, 2012, 4, 3134-3140.	4.0	30
18	Chemical vapor deposition graphene as structural template to control interfacial molecular orientation of chloroaluminium phthalocyanine. Applied Physics Letters, 2011, 99, 093301.	1.5	29

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19	Immobilization of single argon atoms in nano-cages of two-dimensional zeolite model systems. <i>Nature Communications</i> , 2017, 8, 16118.	5.8	29
20	Molecular Orientation and Site Dependent Charge Transfer Dynamics at PTCDA/TiO ₂ (110) Interface Revealed by Resonant Photoemission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4160-4166.	1.5	28
21	Isolating the Roles of Hydrogen Exposure and Trace Carbon Contamination on the Formation of Active Catalyst Populations for Carbon Nanotube Growth. <i>ACS Nano</i> , 2019, 13, 8736-8748.	7.3	28
22	Bandgap Control of the Oxygen Vacancy-Induced Two-Dimensional Electron Gas in SrTiO ₃ . <i>Advanced Materials Interfaces</i> , 2014, 1, 1400155.	1.9	27
23	Molecular-scale investigation of C60-p-sexiphenyl organic heterojunction interface. <i>Journal of Chemical Physics</i> , 2011, 134, 154706.	1.2	26
24	Rational design of two-dimensional molecular donor-acceptor nanostructure arrays. <i>Nanoscale</i> , 2015, 7, 4306-4324.	2.8	26
25	Investigation of Interface Properties for ClAlPc/C ₆₀ Heterojunction-Based Inverted Organic Solar Cell. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2521-2526.	1.5	25
26	Single-Molecule Imaging of Activated Nitrogen Adsorption on Individual Manganese Phthalocyanine. <i>Nano Letters</i> , 2015, 15, 3181-3188.	4.5	22
27	Probing the effect of the Pt-Ni-Pt(111) bimetallic surface electronic structures on the ammonia decomposition reaction. <i>Nanoscale</i> , 2017, 9, 666-672.	2.8	22
28	Ionization-Facilitated Formation of 2D (Alumino)Silicate Noble Gas Clathrate Compounds. <i>Advanced Functional Materials</i> , 2019, 29, 1806583.	7.8	20
29	Multi-modal surface analysis of porous films under <i>operando</i> conditions. <i>AIP Advances</i> , 2020, 10, .	0.6	19
30	Reactive Intermediates or Inert Graphene? Temperature- and Pressure-Determined Evolution of Carbon in the CH ₄ -Ni(111) System. <i>ACS Catalysis</i> , 2017, 7, 6028-6037.	5.5	15
31	Water-Assisted Homolytic Dissociation of Propyne on a Reduced Ceria Surface. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6150-6154.	7.2	14
32	Stabilization of Oxidized Copper Nanoclusters in Confined Spaces. <i>Topics in Catalysis</i> , 2018, 61, 419-427.	1.3	13
33	Synchrotron-based ambient pressure X-ray photoelectron spectroscopy of hydrogen and helium. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	13
34	Tuning the electronic properties of ZnO nanowire field effect transistors via surface functionalization. <i>Nanotechnology</i> , 2015, 26, 095202.	1.3	12
35	Molecular orientation and electronic structure at organic heterojunction interfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 204, 12-22.	0.8	12
36	Reversible Tuning of Interfacial and Intramolecular Charge Transfer in Individual MnPc Molecules. <i>Nano Letters</i> , 2015, 15, 8091-8098.	4.5	12

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37	A high work function anode interfacial layer via mild temperature thermal decomposition of a C60F36 thin film on ITO. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1491.	2.7	11
38	Studying two-dimensional zeolites with the tools of surface science: MFI nanosheets on Au(111). <i>Catalysis Today</i> , 2017, 280, 283-288.	2.2	11
39	First-Principles Study of Interface Structures and Charge Rearrangement at the Aluminosilicate/Ru(0001) Heterojunction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7731-7739.	1.5	11
40	Structural Evolution of Ga ⁺ Cu Model Catalysts for CO ₂ Hydrogenation Reactions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1361-1367.	1.5	11
41	Modification of PTCDA/Co Interfacial Electronic Structures Using Al ₃ Buffer Layer. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25636-25642.	1.5	9
42	Two-Dimensional Ultrathin Silica Films. <i>Chemical Reviews</i> , 0, , .	23.0	9
43	Work function modulation of graphene with binary mixture of Cu and C60F36. <i>Carbon</i> , 2021, 179, 172-179.	5.4	8
44	Enhanced field emission properties of CsPbBr ₃ films by thermal annealing and surface functionalization with boron nitride. <i>Applied Surface Science</i> , 2022, 578, 152116.	3.1	6
45	Room-Temperature in Vacuo Chemisorption of Xenon Atoms on Ru(0001) under Interface Confinement. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13578-13585.	1.5	5
46	Crystalline structures and optoelectronic properties of orthorhombic CsPbBr ₃ polycrystalline films grown by the Co-evaporation method. <i>Vacuum</i> , 2022, 202, 111219.	1.6	4
47	Low-temperature scanning tunneling microscopy/ultraviolet photoelectron spectroscopy investigation of two-dimensional crystallization of C60: pentacene binary system on Ag(111). <i>Journal of Applied Physics</i> , 2012, 111, 034304.	1.1	3
48	Morphology of Palladium Thin Film Deposited on a Two-Dimensional Bilayer Aluminosilicate. <i>Topics in Catalysis</i> , 2019, 62, 1067-1075.	1.3	3
49	Single-molecule imaging of dinitrogen molecule adsorption on individual iron phthalocyanine. <i>Nano Research</i> , 2020, 13, 2393-2398.	5.8	3
50	Pressure-dependent band-bending in ZnO: A near-ambient-pressure X-ray photoelectron spectroscopy study. <i>Journal of Energy Chemistry</i> , 2021, 60, 25-31.	7.1	3
51	Wasserunterstützte homolytische Dissoziation von Propin auf reduzierter Ceroxidoberfläche. <i>Angewandte Chemie</i> , 2020, 132, 6206-6211.	1.6	1
52	CsPbBr ₃ microarrays with tunable periodicity, optoelectronic and field emission properties using self-assembled polystyrene template and co-evaporation method. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 13210-13216.	1.3	1
53	2D (Alumino)Silicate@Noble Clathrates: Ionization-Facilitated Formation of 2D (Alumino)Silicate@Noble Gas Clathrate Compounds (<i>Adv. Funct. Mater.</i> 20/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970137.	7.8	0