

Malcolm F Kadodwala

List of Publications by Year in descending order

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64
papers

2,822
citations

257450

24
h-index

175258

52
g-index

65
all docs

65
docs citations

65
times ranked

2800
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive detection and characterization of biomolecules using superchiral fields. <i>Nature Nanotechnology</i> , 2010, 5, 783-787.	31.5	976
2	Induced Chirality through Electromagnetic Coupling between Chiral Molecular Layers and Plasmonic Nanostructures. <i>Nano Letters</i> , 2012, 12, 977-983.	9.1	204
3	“Superchiral” Spectroscopy: Detection of Protein Higher Order Hierarchical Structure with Chiral Plasmonic Nanostructures. <i>Journal of the American Chemical Society</i> , 2015, 137, 8380-8383.	13.7	171
4	Chiral Electromagnetic Fields Generated by Arrays of Nanoslits. <i>Nano Letters</i> , 2012, 12, 3640-3644.	9.1	163
5	Reversible electron-transfer reactions within a nanoscale metal oxide cage mediated by metallic substrates. <i>Nature Nanotechnology</i> , 2008, 3, 229-233.	31.5	96
6	Disposable Plasmonics: Plastic Templated Plasmonic Metamaterials with Tunable Chirality. <i>Advanced Materials</i> , 2015, 27, 5610-5616.	21.0	92
7	Chiral Plasmonic Fields Probe Structural Order of Biointerfaces. <i>Journal of the American Chemical Society</i> , 2018, 140, 8509-8517.	13.7	58
8	Superchiral Plasmonic Phase Sensitivity for Fingerprinting of Protein Interface Structure. <i>ACS Nano</i> , 2017, 11, 12049-12056.	14.6	56
9	Biomacromolecular Stereostructure Mediates Mode Hybridization in Chiral Plasmonic Nanostructures. <i>Nano Letters</i> , 2016, 16, 5806-5814.	9.1	54
10	A Complete Structural Study of the Coverage Dependence of the Bonding of Thiophene on Cu(111). <i>Journal of Physical Chemistry B</i> , 2001, 105, 140-148.	2.6	53
11	The adsorption of methanol on Ag(111) studied with TDS and XPS. <i>Surface Science</i> , 1996, 357-358, 624-628.	1.9	47
12	A structural study of formate on Cu(111). <i>Surface Science</i> , 2000, 444, 52-60.	1.9	47
13	Controlling Metamaterial Transparency with Superchiral Fields. <i>ACS Photonics</i> , 2018, 5, 535-543.	6.6	47
14	Structural determination of the (111) $\sqrt{3} \times \sqrt{3}$ 30° surface using the normal incidence X-ray standing wave method. <i>Surface Science</i> , 1995, 324, 122-132.	1.9	43
15	Spatial control of chemical processes on nanostructures through nano-localized water heating. <i>Nature Communications</i> , 2016, 7, 10946.	12.8	39
16	The structure of methanol and methoxy on Cu(111). <i>Surface Science</i> , 2003, 530, 111-119.	1.9	38
17	Bromine adsorption on Cu(111). <i>Surface Science</i> , 1997, 370, L219-L225.	1.9	37
18	Roles of Superchirality and Interference in Chiral Plasmonic Biodetection. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15195-15203.	3.1	32

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19	Superchiral near fields detect virus structure. <i>Light: Science and Applications</i> , 2020, 9, 195.	16.6	32
20	The structure of disordered chemisorbed oxygen on Cu. <i>Surface Science</i> , 2002, 519, 57-63.	1.9	31
21	A NIXSW and NEXAFS investigation of thiophene on Cu(111). <i>Surface Science</i> , 1998, 412-413, 166-173.	1.9	29
22	An unusual adsorption site for methoxy on Al(111) surfaces. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 5043-5052.	1.8	26
23	Large ion yields in hydrogen scattering from a graphite surface. <i>Journal of Applied Physics</i> , 1997, 81, 6390-6396.	2.5	25
24	Tert-butyl nitrite surface photochemistry: The transition from submonolayer to multilayer behavior. <i>Journal of Chemical Physics</i> , 1998, 108, 1688-1701.	3.0	24
25	Highly Efficient Electron Beam Induced Enantioselective Surface Chemistry. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18299-18302.	3.1	21
26	Going Beyond the Physical: Instilling Chirality onto the Electronic Structure of a Metal. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1830-1833.	13.8	18
27	1-Bromo-2-chloroethane adsorption on Cu(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993, 11, 2019-2023.	2.1	16
28	A High-Resolution Photoemission Study of Nanoscale Aluminum Oxide Films on NiAl(110). <i>Langmuir</i> , 2005, 21, 8312-8318.	3.5	16
29	The photodissociation of tert-butyl nitrite adsorbed on Ag(111): bimodal velocity distributions of the photoproducts. <i>Chemical Physics Letters</i> , 1997, 268, 7-12.	2.6	15
30	Molecular and dissociative adsorption of 1-bromo-2-chloroethane on Cu(111). <i>Surface Science</i> , 1999, 442, 517-530.	1.9	15
31	The structure of acetate and trifluoroacetate on Cu(111). <i>Surface Science</i> , 2001, 477, 163-173.	1.9	15
32	Photoemission studies of the surface reactivity of thiophene on Si(1)-(2 \times 1), Si(1)-(7 \times 7) and Ge(1)-(2 \times 1). <i>Surface Science</i> , 2001, 494, 251-264.	1.9	15
33	A structural study of disordered sulfur overlayers on Cu(111). <i>Surface Science</i> , 2006, 600, 897-903.	1.9	15
34	Supramolecular Assembly Facilitating Adsorbate-Induced Chiral Electronic States in a Metal Surface. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10005-10011.	2.6	15
35	The Wavelength Dependence of tert-Butyl Nitrite Surface Photochemistry. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8736-8743.	2.6	14
36	A TPD and NIXSW investigation of furan and tetrahydrofuran adsorption on Cu. <i>Surface Science</i> , 2003, 541, 3-13.	1.9	14

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55	Asymmetric photoelectron transmission through chirally-sculpted, polycrystalline gold. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8413.	2.8	6
56	Probing the adsorption structure of a multifunctional organic molecule: a NIXSW and NEXAFS study of 3-chlorothiophene on Cu(111). <i>Surface Science</i> , 1999, 430, 45-54.	1.9	5
57	The electron stimulated chemistry of methyl lactate on Cu(111). <i>Surface Science</i> , 2010, 604, 409-414.	1.9	4
58	Probing the chemical and electronic properties of the core-shell architecture of transition metal trisulfide nanoribbons. <i>Nanoscale</i> , 2012, 4, 607-612.	5.6	4
59	The templated growth of a chiral transition metal chalcogenide. <i>Surface Science</i> , 2014, 629, 94-101.	1.9	4
60	Active Chiral Plasmonics: Flexoelectric Control of Nanoscale Chirality. <i>Advanced Photonics Research</i> , 2021, 2, 2000062.	3.6	4
61	Effects of Substituents on the Structure and Bonding of Thiophene on Cu(111). <i>Journal of Physical Chemistry B</i> , 2001, 105, 5231-5237.	2.6	3
62	Destabilizing Effects of Thiols on Bonding to a Noble Metal: The Effects of Methanethiolate on the Bonding of Aldehydes and Alcohols on Cu(111). <i>Journal of Physical Chemistry C</i> , 2010, 114, 21457-21464.	3.1	3
63	Symmetry Reduction and Shape Effects in Concave Chiral Plasmonic Structures. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5049-5056.	3.1	3
64	Electron Energy Loss Spectroscopy of a Chiral Plasmonic Structure. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012005.	0.4	2