

Friedrich Roth

List of Publications by Year in descending order

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papers

929
citations

516215

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454577

30
g-index

46
all docs

46
docs citations

46
times ranked

1220
citing authors

#	ARTICLE	IF	CITATIONS
1	Guiding graphene derivatization for covalent immobilization of aptamers. Carbon, 2022, 196, 264-279.	5.4	7
2	Ultrafast orbital tomography of a pentacene film using time-resolved momentum microscopy at a FEL. Nature Communications, 2022, 13, 2741.	5.8	13
3	Optical Anisotropy and Momentum-Dependent Excitons in Dibenzopentacene Single Crystals. ACS Omega, 2022, 7, 21183-21191.	1.6	4
4	Direct observation of charge separation in an organic light harvesting system by femtosecond time-resolved XPS. Nature Communications, 2021, 12, 1196.	5.8	17
5	Extreme Biomimetics: Designing of the First Nanostructured 3D Sponginâ€“Atacamite Composite and its Application. Advanced Materials, 2021, 33, e2101682.	11.1	21
6	Real-time interfacial electron dynamics revealed through temporal correlations in x-ray photoelectron spectroscopy. Structural Dynamics, 2021, 8, 044301.	0.9	1
7	Nanoscale Confinement of Photo-Injected Electrons at Hybrid Interfaces. Journal of Physical Chemistry Letters, 2021, 12, 11951-11959.	2.1	1
8	Evidence for an orbital dependent Mott transition in the ladders of $\text{La}_{1-x}\text{Pr}_x\text{NiO}_2$. Physical Review B, 2020, 101, .	1.1	3
9	Photoinduced Charge Carrier Dynamics and Electron Injection Efficiencies in Au Nanoparticle-Sensitized TiO_2 Determined with Picosecond Time-Resolved X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 5476-5481.	2.1	18
10	From graphene oxide towards aminated graphene: facile synthesis, its structure and electronic properties. Scientific Reports, 2020, 10, 6902.	1.6	114
11	Towards Real-Time Monitoring of Interfacial Chemical Dynamics with Time-Resolved X-ray Photoelectron Spectroscopy. , 2020, , .		0
12	CeMo_2B_5 : A New Type of Arrangement of Puckered Boron Hexagonal Rings. European Journal of Inorganic Chemistry, 2019, 2019, 3572-3580.	1.0	2
13	Extreme biomimetics: Preservation of molecular detail in centimeter-scale samples of biological meshes laid down by sponges. Science Advances, 2019, 5, eaax2805.	4.7	53
14	Decomposing electronic and lattice contributions in optical pump â€“ X-ray probe transient inner-shell absorption spectroscopy of CuO. Faraday Discussions, 2019, 216, 414-433.	1.6	8
15	Efficient charge generation from triplet excitons in metal-organic heterojunctions. Physical Review B, 2019, 99, .	1.1	9
16	On the Electronic Structure of Cu Chlorophyllin and Its Breakdown Products: A Carbon K-Edge X-ray Absorption Spectroscopy Study. Journal of Physical Chemistry B, 2018, 122, 1846-1851.	1.2	7
17	Extreme biomimetics: A carbonized 3D spongin scaffold as a novel support for nanostructured manganese oxide(IV) and its electrochemical applications. Nano Research, 2018, 11, 4199-4214.	5.8	51
18	Angle resolved Photoemission from Ag and Au single crystals: Final state lifetimes in the attosecond range. Journal of Electron Spectroscopy and Related Phenomena, 2018, 224, 84-92.	0.8	10

#	ARTICLE	IF	CITATIONS
19	Facile reduction of graphene oxide suspensions and films using glass wafers. <i>Scientific Reports</i> , 2018, 8, 14154.	1.6	110
20	Irradiation-induced degradation of PTB7 investigated by valence band and S 2 <i>p</i> photoelectron spectroscopy. <i>Nanotechnology</i> , 2016, 27, 324005.	1.3	8
21	Improving the efficiency of high harmonic generation (HHG) by Ne-admixing into a pure Ar gas medium. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	9
22	Impact of potassium doping on the electronic structure of tetracene and pentacene: An electron energy-loss study. <i>Journal of Chemical Physics</i> , 2015, 143, 154708.	1.2	7
23	Electronic properties of Mn-phthalocyanine/C60 bulk heterojunctions: Combining photoemission and electron energy-loss spectroscopy. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	4
24	Low-energy exciton pocket at finite momentum in tetracene molecular solids. <i>Europhysics Letters</i> , 2015, 112, 37004.	0.7	10
25	Electronic excitation spectrum of doped organic thin films investigated using electron energy-loss spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 204, 23-28.	0.8	1
26	Site-specific probing of charge transfer dynamics in organic photovoltaics. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	15
27	Electronic properties and morphology of Cu-phthalocyanine/C60 composite mixtures. <i>Journal of Applied Physics</i> , 2014, 115, 033705.	1.1	11
28	Electron energy-loss spectroscopy: A versatile tool for the investigations of plasmonic excitations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 195, 85-95.	0.8	65
29	Phthalocyanine dimers in a blend: Spectroscopic and theoretical studies of MnPc/F16CoPc. <i>Journal of Chemical Physics</i> , 2013, 138, 024707.	1.2	17
30	Exciton properties of selected aromatic hydrocarbon systems. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	16
31	Electronic excitation spectrum of calcium-doped picene: Electron energy-loss spectroscopy study. <i>Physical Review B</i> , 2013, 88, .	1.1	0
32	Challenging the nature of low-energy plasmon excitations in CaC6 using electron energy-loss spectroscopy. <i>Europhysics Letters</i> , 2013, 102, 17001.	0.7	7
33	Loss spectroscopy of molecular solids: combining experiment and theory. <i>New Journal of Physics</i> , 2013, 15, 125024.	1.2	15
34	Electronic properties of spiro compounds for organic electronics. <i>Journal of Chemical Physics</i> , 2012, 136, 124702.	1.2	9
35	Absence of photoemission from the Fermi level in potassium intercalated picene and coronene films: Structure, polaron, or correlation physics?. <i>Journal of Chemical Physics</i> , 2012, 136, 134503.	1.2	50
36	Comprehensive studies of the electronic structure of pristine and potassium doped chrysene investigated by electron energy-loss spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 137, 114508.	1.2	11

#	ARTICLE	IF	CITATIONS
37	Electronic structure of undoped and potassium-doped coronene investigated by electron energy-loss spectroscopy. Physical Review B, 2012, 85, .	1.1	28
38	Electronic properties of 1,2;8,9-dibenzopentacene thin films: A joint experimental and theoretical study. Physical Review B, 2012, 86, .	1.1	8
39	Momentum dependence of the excitons in pentacene. Journal of Chemical Physics, 2012, 136, 204708.	1.2	43
40	Plasmon dispersion in molecular solids: Picene and potassium-doped picene. Physical Review B, 2011, 84, .	1.1	28
41	Dynamic response and electronic structure of potassium-doped picene investigated by electron energy-loss spectroscopy. Physical Review B, 2011, 83, .	1.1	26
42	Exciton character in picene molecular solids. Physical Review B, 2011, 83, .	1.1	27
43	Electronic excitations of potassium intercalated manganese phthalocyanine investigated by electron energy-loss spectroscopy. Journal of Chemical Physics, 2011, 134, 194504.	1.2	11
44	Electronic properties of molecular solids: the peculiar case of solid picene. New Journal of Physics, 2010, 12, 103036.	1.2	46
45	Plasmons and interband transitions of Ca ₁₁ Sr ₃ Cu ₂₄ O ₄₁ investigated by electron energy-loss spectroscopy. Physical Review B, 2010, 82, .	1.1	7