

Frantisek Karlicky

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,838
citations

279798

23
h-index

233421

45
g-index

45
all docs

45
docs citations

45
times ranked

4173
citing authors

#	ARTICLE	IF	CITATIONS
19	Fluorinated graphenes as advanced biosensors – effect of fluorine coverage on electron transfer properties and adsorption of biomolecules. <i>Nanoscale</i> , 2016, 8, 12134-12142.	5.6	60
20	Modelling of graphene functionalization. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6351-6372.	2.8	190
21	Thiofluorographene – Hydrophilic Graphene Derivative with Semiconducting and Genosensing Properties. <i>Advanced Materials</i> , 2015, 27, 2305-2310.	21.0	84
22	Reactivity of Fluorographene: A Facile Way toward Graphene Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1430-1434.	4.6	90
23	Graphene: Thiofluorographene – Hydrophilic Graphene Derivative with Semiconducting and Genosensing Properties (Adv. Mater. 14/2015). <i>Advanced Materials</i> , 2015, 27, 2407-2407.	21.0	4
24	The surface and structural properties of graphite fluoride. <i>Carbon</i> , 2015, 94, 804-809.	10.3	53
25	Interplay between Ethanol Adsorption to High-Energy Sites and Clustering on Graphene and Graphite Alters the Measured Isothermic Adsorption Enthalpies. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20535-20543.	3.1	31
26	Quantum modelling of hydrogen chemisorption on graphene and graphite. <i>Journal of Chemical Physics</i> , 2014, 140, 124702.	3.0	18
27	Band gaps and optical spectra from single- and double-layer fluorographene to graphite fluoride: many-body effects and excitonic states. <i>Annalen Der Physik</i> , 2014, 526, 408-414.	2.4	49
28	Anaerobic Reaction of Nanoscale Zerovalent Iron with Water: Mechanism and Kinetics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13817-13825.	3.1	114
29	Challenges in the theoretical description of nanoparticle reactivity: Nano zero-valent iron. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 987-992.	2.0	14
30	Band Gaps and Optical Spectra of Chlorographene, Fluorographene and Graphane from G_{00} , GW_{00} and GW Calculations on Top of PBE and HSE06 Orbitals. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4155-4164.	5.3	142
31	Adsorption of Small Organic Molecules on Graphene. <i>Journal of the American Chemical Society</i> , 2013, 135, 6372-6377.	13.7	407
32	Halogenated Graphenes: Rapidly Growing Family of Graphene Derivatives. <i>ACS Nano</i> , 2013, 7, 6434-6464.	14.6	349
33	Random Phase Approximation in Surface Chemistry: Water Splitting on Iron. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3670-3676.	5.3	39
34	Photoabsorption spectrum of helium trimer cation – Theoretical modeling. <i>Journal of Chemical Physics</i> , 2013, 139, 204310.	3.0	5
35	Ligand effects on single-electron transfer of isolated iron atoms in the gaseous complexes $[(OC)_mFe(OH)_2]_n^+$ ($m, n=0-2, m+n=1, 2$). <i>International Journal of Mass Spectrometry</i> , 2012, 330-332, 95-99.	1.5	4
36	Band gaps and structural properties of graphene halides and their derivatives: A hybrid functional study with localized orbital basis sets. <i>Journal of Chemical Physics</i> , 2012, 137, 034709.	3.0	101

