

Matěj Velický^{1/2}

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9206810/publications.pdf>

Version: 2024-02-01

48
papers

1,652
citations

430442

18
h-index

288905

40
g-index

52
all docs

52
docs citations

52
times ranked

2976
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized Spectroelectrochemical Identification of Basal Plane and Defect-Related Charge-Transfer Processes in Graphene. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 642-648.	2.1	8
2	Activation of Raman modes in monolayer transition metal dichalcogenides through strong interaction with gold. <i>Physical Review B</i> , 2022, 105, .	1.1	9
3	Nano-optical Visualization of Interlayer Interactions in WSe_2/WSe_2 Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5854-5859.	2.1	5
4	Electrochemical Detection of Isolated Nanoscale Defects in 2D Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11636-11641.	1.5	8
5	In Situ Raman Microdroplet Spectroelectrochemical Investigation of CuSCN Electrodeposited on Different Substrates. <i>Nanomaterials</i> , 2021, 11, 1256.	1.9	3
6	Franckeite as an Exfoliable Naturally Occurring Topological Insulator. <i>Nano Letters</i> , 2021, 21, 7781-7788.	4.5	6
7	Electrochemical kinetics as a function of transition metal dichalcogenide thickness. <i>Electrochimica Acta</i> , 2021, 393, 139027.	2.6	12
8	Electrochemistry of 2D nanomaterials. <i>Frontiers of Nanoscience</i> , 2021, , 485-536.	0.3	3
9	Electrolyte versus Dielectric Gating of Two-Dimensional Materials. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21803-21809.	1.5	10
10	Electron Tunneling through Boron Nitride Confirms Marcus-Hush Theory Predictions for Ultramicroelectrodes. <i>ACS Nano</i> , 2020, 14, 993-1002.	7.3	16
11	The Intricate Love Affairs between MoS_2 and Metallic Substrates. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001324.	1.9	15
12	Strain and Charge Doping Fingerprints of the Strong Interaction between Monolayer MoS_2 and Gold. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6112-6118.	2.1	77
13	Achieving extremely high optical contrast of atomically-thin MoS_2 . <i>Nanotechnology</i> , 2020, 31, 145706.	1.3	15
14	Comparable Enhancement of TERS Signals from WSe_2 on Chromium and Gold. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8971-8977.	1.5	5
15	Comparable Enhancement of TERS Signals from WSe on Chromium and Gold. <i>Journal of Physical Chemistry C</i> , 2020, 124, .	1.5	1
16	Exfoliation of Centimetre-Sized Transition Metal Dichalcogenide Monolayers. , 2019, , .		0
17	Electrochemistry of the Basal Plane versus Edge Plane of Graphite Revisited. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11677-11685.	1.5	67
18	Modification of Conductive Electrodes with Two-Dimensional Materials. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0

#	ARTICLE	IF	CITATIONS
19	Optimising the visibility of graphene and graphene oxide on gold with multilayer heterostructures. <i>Nanotechnology</i> , 2018, 29, 275205.	1.3	14
20	Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. <i>ACS Nano</i> , 2018, 12, 10463-10472.	7.3	203
21	Rigorous and Accurate Contrast Spectroscopy for Ultimate Thickness Determination of Micrometer-Sized Graphene on Gold and Molecular Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22520-22528.	4.0	12
22	Electrowetting on conductors: anatomy of the phenomenon. <i>Faraday Discussions</i> , 2017, 199, 49-61.	1.6	15
23	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. <i>Nature Communications</i> , 2017, 8, 14410.	5.8	93
24	From two-dimensional materials to their heterostructures: An electrochemist's perspective. <i>Applied Materials Today</i> , 2017, 8, 68-103.	2.3	212
25	Understanding 2D Crystal Vertical Heterostructures at the Atomic Scale Using Advanced Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 1714-1715.	0.2	0
26	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. <i>Applied Materials Today</i> , 2017, 8, 125-131.	2.3	20
27	Asymmetric MoS ₂ /Graphene/Metal Sandwiches: Preparation, Characterization, and Application. <i>Advanced Materials</i> , 2016, 28, 8256-8264.	11.1	64
28	In Situ Study of Li Intercalation into Highly Crystalline Graphitic Flakes of Varying Thicknesses. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4291-4296.	2.1	70
29	Photoelectrochemistry of Pristine Mono- and Few-Layer MoS ₂ . <i>Nano Letters</i> , 2016, 16, 2023-2032.	4.5	107
30	Electrochemical and Spectroelectrochemical Characterization of Graphene Electrodes Derived from Solution-Based Exfoliation. <i>Electroanalysis</i> , 2015, 27, 1026-1034.	1.5	11
31	Electron transfer kinetics on natural crystals of MoS ₂ and graphite. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17844-17853.	1.3	57
32	Mechanical stability of substrate-bound graphene in contact with aqueous solutions. <i>2D Materials</i> , 2015, 2, 024011.	2.0	12
33	Symmetric and Asymmetric Decoration of Graphene: Bimetallic Graphene Sandwiches. <i>Advanced Functional Materials</i> , 2015, 25, 2899-2909.	7.8	31
34	Electrostatic Stabilization of Graphene in Organic Dispersions. <i>Langmuir</i> , 2015, 31, 13068-13076.	1.6	32
35	Functionalization of graphene at the organic/water interface. <i>Chemical Science</i> , 2015, 6, 1316-1323.	3.7	60
36	Role of surface contaminants, functionalities, defects and electronic structure: general discussion. <i>Faraday Discussions</i> , 2014, 172, 365-395.	1.6	1

#	ARTICLE	IF	CITATIONS
37	Mechanism of Ion Transfer in Supported Liquid Membrane Systems: Electrochemical Control over Membrane Distribution. <i>Analytical Chemistry</i> , 2014, 86, 435-442.	3.2	16
38	Electron Transfer Kinetics on Mono- and Multilayer Graphene. <i>ACS Nano</i> , 2014, 8, 10089-10100.	7.3	160
39	Carbon electrode interfaces for synthesis, sensing and electrocatalysis: general discussion. <i>Faraday Discussions</i> , 2014, 172, 497-520.	1.6	1
40	Electrochemistry of well-defined graphene samples: role of contaminants. <i>Faraday Discussions</i> , 2014, 172, 261-272.	1.6	16
41	On the controlled electrochemical preparation of R ⁴ N ⁺ graphite intercalation compounds and their host structural deformation effects. <i>Journal of Electroanalytical Chemistry</i> , 2014, 730, 34-40.	1.9	25
42	Electrochemistry in a drop: a study of the electrochemical behaviour of mechanically exfoliated graphene on photoresist coated silicon substrate. <i>Chemical Science</i> , 2014, 5, 582-589.	3.7	48
43	Use of voltammetry for in vitro equilibrium and transport studies of ionisable drugs. <i>ADMET and DMPK</i> , 2014, 2, .	1.1	5
44	Permeation of a Fully Ionized Species Across a Polarized Supported Liquid Membrane. <i>Analytical Chemistry</i> , 2012, 84, 2541-2547.	3.2	26
45	Hydrodynamic voltammetry at the liquid-liquid interface: Application to the transfer of ionised drug molecules. <i>Journal of Electroanalytical Chemistry</i> , 2012, 683, 94-102.	1.9	16
46	On the stability of the silver/silver sulfate reference electrode. <i>Analytical Methods</i> , 2012, 4, 1207.	1.3	17
47	In situ artificial membrane permeation assay under hydrodynamic control: Correlation between drug in vitro permeability and fraction absorbed in humans. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 44, 299-309.	1.9	14
48	In Situ Artificial Membrane Permeation Assay under Hydrodynamic Control: Permeability-pH Profiles of Warfarin and Verapamil. <i>Pharmaceutical Research</i> , 2010, 27, 1644-1658.	1.7	28