

# Matěj Velický<sup>1/2</sup>

## List of Publications by Year in descending order

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48  
papers

1,652  
citations

430874

18  
h-index

289244

40  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2976  
citing authors

#	ARTICLE	IF	CITATIONS
1	From two-dimensional materials to their heterostructures: An electrochemist's perspective. Applied Materials Today, 2017, 8, 68-103.	4.3	212
2	Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. ACS Nano, 2018, 12, 10463-10472.	14.6	203
3	Electron Transfer Kinetics on Mono- and Multilayer Graphene. ACS Nano, 2014, 8, 10089-10100.	14.6	160
4	Photoelectrochemistry of Pristine Mono- and Few-Layer MoS <sub>2</sub> . Nano Letters, 2016, 16, 2023-2032.	9.1	107
5	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. Nature Communications, 2017, 8, 14410.	12.8	93
6	Strain and Charge Doping Fingerprints of the Strong Interaction between Monolayer MoS <sub>2</sub> and Gold. Journal of Physical Chemistry Letters, 2020, 11, 6112-6118.	4.6	77
7	In Situ Study of Li Intercalation into Highly Crystalline Graphitic Flakes of Varying Thicknesses. Journal of Physical Chemistry Letters, 2016, 7, 4291-4296.	4.6	70
8	Electrochemistry of the Basal Plane versus Edge Plane of Graphite Revisited. Journal of Physical Chemistry C, 2019, 123, 11677-11685.	3.1	67
9	Asymmetric MoS <sub>2</sub> /Graphene/Metal Sandwiches: Preparation, Characterization, and Application. Advanced Materials, 2016, 28, 8256-8264.	21.0	64
10	Functionalization of graphene at the organic/water interface. Chemical Science, 2015, 6, 1316-1323.	7.4	60
11	Electron transfer kinetics on natural crystals of MoS <sub>2</sub> and graphite. Physical Chemistry Chemical Physics, 2015, 17, 17844-17853.	2.8	57
12	Electrochemistry in a drop: a study of the electrochemical behaviour of mechanically exfoliated graphene on photoresist coated silicon substrate. Chemical Science, 2014, 5, 582-589.	7.4	48
13	Electrostatic Stabilization of Graphene in Organic Dispersions. Langmuir, 2015, 31, 13068-13076.	3.5	32
14	Symmetric and Asymmetric Decoration of Graphene: Bimetallic Graphene Sandwiches. Advanced Functional Materials, 2015, 25, 2899-2909.	14.9	31
15	In Situ Artificial Membrane Permeation Assay under Hydrodynamic Control: Permeability-pH Profiles of Warfarin and Verapamil. Pharmaceutical Research, 2010, 27, 1644-1658.	3.5	28
16	Permeation of a Fully Ionized Species Across a Polarized Supported Liquid Membrane. Analytical Chemistry, 2012, 84, 2541-2547.	6.5	26
17	On the controlled electrochemical preparation of R <sub>4</sub> N <sup>+</sup> graphite intercalation compounds and their host structural deformation effects. Journal of Electroanalytical Chemistry, 2014, 730, 34-40.	3.8	25
18	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. Applied Materials Today, 2017, 8, 125-131.	4.3	20

#	ARTICLE	IF	CITATIONS
19	On the stability of the silver/silver sulfate reference electrode. <i>Analytical Methods</i> , 2012, 4, 1207.	2.7	17
20	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.	3.8	16
21	Mechanism of Ion Transfer in Supported Liquid Membrane Systems: Electrochemical Control over Membrane Distribution. <i>Analytical Chemistry</i> , 2014, 86, 435-442.	6.5	16
22	Electrochemistry of well-defined graphene samples: role of contaminants. <i>Faraday Discussions</i> , 2014, 172, 261-272.	3.2	16
23	Electron Tunneling through Boron Nitride Confirms Marcus–Hush Theory Predictions for Ultramicroelectrodes. <i>ACS Nano</i> , 2020, 14, 993-1002.	14.6	16
24	Electrowetting on conductors: anatomy of the phenomenon. <i>Faraday Discussions</i> , 2017, 199, 49-61.	3.2	15
25	The Intricate Love Affairs between MoS <sub>2</sub> and Metallic Substrates. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001324.	3.7	15
26	Achieving extremely high optical contrast of atomically-thin MoS <sub>2</sub> . <i>Nanotechnology</i> , 2020, 31, 145706.	2.6	15
27	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.	4.0	14
28	Optimising the visibility of graphene and graphene oxide on gold with multilayer heterostructures. <i>Nanotechnology</i> , 2018, 29, 275205.	2.6	14
29	Mechanical stability of substrate-bound graphene in contact with aqueous solutions. <i>2D Materials</i> , 2015, 2, 024011.	4.4	12
30	Rigorous and Accurate Contrast Spectroscopy for Ultimate Thickness Determination of Micrometer-Sized Graphene on Gold and Molecular Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22520-22528.	8.0	12
31	Electrochemical kinetics as a function of transition metal dichalcogenide thickness. <i>Electrochimica Acta</i> , 2021, 393, 139027.	5.2	12
32	Electrochemical and Spectroelectrochemical Characterization of Graphene Electrodes Derived from Solution–Based Exfoliation. <i>Electroanalysis</i> , 2015, 27, 1026-1034.	2.9	11
33	Electrolyte versus Dielectric Gating of Two-Dimensional Materials. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21803-21809.	3.1	10
34	Activation of Raman modes in monolayer transition metal dichalcogenides through strong interaction with gold. <i>Physical Review B</i> , 2022, 105, .	3.2	9
35	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.	4.6	8
36	Electrochemical Detection of Isolated Nanoscale Defects in 2D Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11636-11641.	3.1	8

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37	Franckeite as an Exfoliable Naturally Occurring Topological Insulator. Nano Letters, 2021, 21, 7781-7788.	9.1	6
38	Comparable Enhancement of TERS Signals from WSe <sub>2</sub> on Chromium and Gold. Journal of Physical Chemistry C, 2020, 124, 8971-8977.	3.1	5
39	Use of voltammetry for in vitro equilibrium and transport studies of ionisable drugs. ADMET and DMPK, 2014, 2, .	2.1	5
40	Nano-optical Visualization of Interlayer Interactions in WSe <sub>2</sub> /WS <sub>2</sub> Heterostructures. Journal of Physical Chemistry Letters, 2022, 13, 5854-5859.	4.6	5
41	In Situ Raman Microdroplet Spectroelectrochemical Investigation of CuSCN Electrodeposited on Different Substrates. Nanomaterials, 2021, 11, 1256.	4.1	3
42	Electrochemistry of 2D nanomaterials. Frontiers of Nanoscience, 2021, , 485-536.	0.6	3
43	Role of surface contaminants, functionalities, defects and electronic structure: general discussion. Faraday Discussions, 2014, 172, 365-395.	3.2	1
44	Carbon electrode interfaces for synthesis, sensing and electrocatalysis: general discussion. Faraday Discussions, 2014, 172, 497-520.	3.2	1
45	Comparable Enhancement of TERS Signals from WSe on Chromium and Gold. Journal of Physical Chemistry C, 2020, 124, .	3.1	1
46	Understanding 2D Crystal Vertical Heterostructures at the Atomic Scale Using Advanced Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 1714-1715.	0.4	0
47	Exfoliation of Centimetre-Sized Transition Metal Dichalcogenide Monolayers. , 2019, , .		0
48	Modification of Conductive Electrodes with Two-Dimensional Materials. ECS Meeting Abstracts, 2019, , .	0.0	0