

# Matej Velick

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43  
papers

1,170  
citations

17  
h-index

33  
g-index

52  
ext. papers

1,426  
ext. citations

6.7  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
43	Localized Spectroelectrochemical Identification of Basal Plane and Defect-Related Charge-Transfer Processes in Graphene.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 13, 642-648	6.4	2
42	Electrolyte versus Dielectric Gating of Two-Dimensional Materials. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 21803-21809	3.8	1
41	In Situ Raman Microdroplet Spectroelectrochemical Investigation of CuSCN Electrodeposited on Different Substrates. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
40	Franckeite as an Exfoliable Naturally Occurring Topological Insulator. <i>Nano Letters</i> , <b>2021</b> , 21, 7781-7788	11.5	0
39	Electrochemical kinetics as a function of transition metal dichalcogenide thickness. <i>Electrochimica Acta</i> , <b>2021</b> , 393, 139027	6.7	5
38	Electrochemistry of 2D nanomaterials. <i>Frontiers of Nanoscience</i> , <b>2021</b> , 485-536	0.7	1
37	Strain and Charge Doping Fingerprints of the Strong Interaction between Monolayer MoS and Gold. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 6112-6118	6.4	27
36	Achieving extremely high optical contrast of atomically-thin MoS. <i>Nanotechnology</i> , <b>2020</b> , 31, 145706	3.4	8
35	Comparable Enhancement of TERS Signals from WSe on Chromium and Gold. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124,	3.8	1
34	Electron Tunneling through Boron Nitride Confirms Marcus-Hush Theory Predictions for Ultramicroelectrodes. <i>ACS Nano</i> , <b>2020</b> , 14, 993-1002	16.7	10
33	The Intricate Love Affairs between MoS2 and Metallic Substrates. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2001324	4.6	4
32	Comparable Enhancement of TERS Signals from WSe2 on Chromium and Gold. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 8971-8977	3.8	4
31	Electrochemistry of the Basal Plane versus Edge Plane of Graphite Revisited. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 11677-11685	3.8	33
30	Optimising the visibility of graphene and graphene oxide on gold with multilayer heterostructures. <i>Nanotechnology</i> , <b>2018</b> , 29, 275205	3.4	11
29	Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. <i>ACS Nano</i> , <b>2018</b> , 12, 10463-10472	16.7	99
28	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> , <b>2018</b> , 10, 22520-22528	9.5	8
27	Electrowetting on conductors: anatomy of the phenomenon. <i>Faraday Discussions</i> , <b>2017</b> , 199, 49-61	3.6	7

26	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. <i>Nature Communications</i> , <b>2017</b> , 8, 14410	17.4	66
25	From two-dimensional materials to their heterostructures: An electrochemist's perspective. <i>Applied Materials Today</i> , <b>2017</b> , 8, 68-103	6.6	153
24	Understanding 2D Crystal Vertical Heterostructures at the Atomic Scale Using Advanced Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1714-1715	0.5	
23	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. <i>Applied Materials Today</i> , <b>2017</b> , 8, 125-131	6.6	17
22	Asymmetric MoS <sub>2</sub> /Graphene/Metal Sandwiches: Preparation, Characterization, and Application. <i>Advanced Materials</i> , <b>2016</b> , 28, 8256-8264	24	50
21	In Situ Study of Li Intercalation into Highly Crystalline Graphitic Flakes of Varying Thicknesses. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4291-4296	6.4	54
20	Photoelectrochemistry of Pristine Mono- and Few-Layer MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2016</b> , 16, 2023-32	11.5	91
19	Symmetric and Asymmetric Decoration of Graphene: Bimetal-Graphene Sandwiches. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2899-2909	15.6	30
18	Electrostatic Stabilization of Graphene in Organic Dispersions. <i>Langmuir</i> , <b>2015</b> , 31, 13068-76	4	25
17	Functionalization of graphene at the organic/water interface. <i>Chemical Science</i> , <b>2015</b> , 6, 1316-1323	9.4	54
16	Electrochemistry of Graphene. <i>Advances in Electrochemical Science and Engineering</i> , <b>2015</b> , 121-162		2
15	Electrochemical and Spectroelectrochemical Characterization of Graphene Electrodes Derived from Solution-Based Exfoliation. <i>Electroanalysis</i> , <b>2015</b> , 27, 1026-1034	3	10
14	Electron transfer kinetics on natural crystals of MoS <sub>2</sub> and graphite. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 17844-53	3.6	50
13	Mechanical stability of substrate-bound graphene in contact with aqueous solutions. <i>2D Materials</i> , <b>2015</b> , 2, 024011	5.9	10
12	Electron transfer kinetics on mono- and multilayer graphene. <i>ACS Nano</i> , <b>2014</b> , 8, 10089-100	16.7	132
11	Electrochemistry of well-defined graphene samples: role of contaminants. <i>Faraday Discussions</i> , <b>2014</b> , 172, 261-72	3.6	16
10	On the controlled electrochemical preparation of R <sub>4</sub> N <sup>+</sup> graphite intercalation compounds and their host structural deformation effects. <i>Journal of Electroanalytical Chemistry</i> , <b>2014</b> , 730, 34-40	4.1	23
9	Electrochemistry in a drop: a study of the electrochemical behaviour of mechanically exfoliated graphene on photoresist coated silicon substrate. <i>Chemical Science</i> , <b>2014</b> , 5, 582-589	9.4	43

8	Role of surface contaminants, functionalities, defects and electronic structure: general discussion. <i>Faraday Discussions</i> , <b>2014</b> , 172, 365-95	3.6	1
7	Mechanism of ion transfer in supported liquid membrane systems: electrochemical control over membrane distribution. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 435-42	7.8	16
6	Use of voltammetry for in vitro equilibrium and transport studies of ionisable drugs. <i>ADMET and DMPK</i> , <b>2014</b> , 2,	1.3	4
5	Permeation of a fully ionized species across a polarized supported liquid membrane. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 2541-7	7.8	24
4	Hydrodynamic voltammetry at the liquid-liquid interface: Application to the transfer of ionised drug molecules. <i>Journal of Electroanalytical Chemistry</i> , <b>2012</b> , 683, 94-102	4.1	14
3	On the stability of the silver/silver sulfate reference electrode. <i>Analytical Methods</i> , <b>2012</b> , 4, 1207	3.2	15
2	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> , <b>2011</b> , 44, 299-309	5.1	12
1	In situ artificial membrane permeation assay under hydrodynamic control: permeability-pH profiles of warfarin and verapamil. <i>Pharmaceutical Research</i> , <b>2010</b> , 27, 1644-58	4.5	26