Matej Velick

List of Publications by Citations

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	From two-dimensional materials to their heterostructures: An electrochemistas perspective. *Applied Materials Today*, **2017**, 8, 68-103	6.6	153
42	Electron transfer kinetics on mono- and multilayer graphene. *ACS Nano*, **2014**, 8, 10089-100	16.7	132
41	Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. *ACS Nano*, **2018**, 12, 10463-10472	16.7	99
40	Photoelectrochemistry of Pristine Mono- and Few-Layer MoS2. *Nano Letters*, **2016**, 16, 2023-32	11.5	91
39	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. *Nature Communications*, **2017**, 8, 14410	17.4	66
38	Functionalization of graphene at the organic/water interface. *Chemical Science*, **2015**, 6, 1316-1323	9.4	54
37	In Situ Study of Li Intercalation into Highly Crystalline Graphitic Flakes of Varying Thicknesses. *Journal of Physical Chemistry Letters*, **2016**, 7, 4291-4296	6.4	54
36	Asymmetric MoS /Graphene/Metal Sandwiches: Preparation, Characterization, and Application. *Advanced Materials*, **2016**, 28, 8256-8264	24	50
35	Electron transfer kinetics on natural crystals of MoS2 and graphite. *Physical Chemistry Chemical Physics*, **2015**, 17, 17844-53	3.6	50
34	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	9.4	43
33	Electrochemistry of the Basal Plane versus Edge Plane of Graphite Revisited. *Journal of Physical Chemistry C*, **2019**, 123, 11677-11685	3.8	33
32	Symmetric and Asymmetric Decoration of Graphene: Bimetal-Graphene Sandwiches. *Advanced Functional Materials*, **2015**, 25, 2899-2909	15.6	30
31	Strain and Charge Doping Fingerprints of the Strong Interaction between Monolayer MoS and Gold. *Journal of Physical Chemistry Letters*, **2020**, 11, 6112-6118	6.4	27
30	In situ artificial membrane permeation assay under hydrodynamic control: permeability-pH profiles of warfarin and verapamil. *Pharmaceutical Research*, **2010**, 27, 1644-58	4.5	26
29	Electrostatic Stabilization of Graphene in Organic Dispersions. *Langmuir*, **2015**, 31, 13068-76	4	25
28	Permeation of a fully ionized species across a polarized supported liquid membrane. *Analytical Chemistry*, **2012**, 84, 2541-7	7.8	24
27	On the controlled electrochemical preparation of R4N+ graphite intercalation compounds and their host structural deformation effects. *Journal of Electroanalytical Chemistry*, **2014**, 730, 34-40	4.1	23

26	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. *Applied Materials Today*, **2017**, 8, 125-131	6.6	17
25	Electrochemistry of well-defined graphene samples: role of contaminants. *Faraday Discussions*, **2014**, 172, 261-72	3.6	16
24	Mechanism of ion transfer in supported liquid membrane systems: electrochemical control over membrane distribution. *Analytical Chemistry*, **2014**, 86, 435-42	7.8	16
23	On the stability of the silver/silver sulfate reference electrode. *Analytical Methods*, **2012**, 4, 1207	3.2	15
22	Hydrodynamic voltammetry at the liquid□liquid interface: Application to the transfer of ionised drug molecules. *Journal of Electroanalytical Chemistry*, **2012**, 683, 94-102	4.1	14
21	In situ artificial membrane permeation assay under hydrodynamic control: correlation between drug in vitro permeability and fraction absorbed in humans. *European Journal of Pharmaceutical Sciences*, **2011**, 44, 299-309	5.1	12
20	Optimising the visibility of graphene and graphene oxide on gold with multilayer heterostructures. *Nanotechnology*, **2018**, 29, 275205	3.4	11
19	Electrochemical and Spectroelectrochemical Characterization of Graphene Electrodes Derived from Solution-Based Exfoliation. *Electroanalysis*, **2015**, 27, 1026-1034	3	10
18	Mechanical stability of substrate-bound graphene in contact with aqueous solutions. *2D Materials*, **2015**, 2, 024011	5.9	10
17	Electron Tunneling through Boron Nitride Confirms Marcus-Hush Theory Predictions for Ultramicroelectrodes. *ACS Nano*, **2020**, 14, 993-1002	16.7	10
16	Achieving extremely high optical contrast of atomically-thin MoS. *Nanotechnology*, **2020**, 31, 145706	3.4	8
15	Rigorous and Accurate Contrast Spectroscopy for Ultimate Thickness Determination of Micrometer-Sized Graphene on Gold and Molecular Sensing. *ACS Applied Materials & Interfaces*, **2018**, 10, 22520-22528	9.5	8
14	Electrowetting on conductors: anatomy of the phenomenon. *Faraday Discussions*, **2017**, 199, 49-61	3.6	7
13	Electrochemical kinetics as a function of transition metal dichalcogenide thickness. *Electrochimica Acta*, **2021**, 393, 139027	6.7	5
12	Use of voltammetry for in vitro equilibrium and transport studies of ionisable drugs. *ADMET and DMPK*, **2014**, 2,	1.3	4
11	The Intricate Love Affairs between MoS2 and Metallic Substrates. *Advanced Materials Interfaces*, **2020**, 7, 2001324	4.6	4
10	Comparable Enhancement of TERS Signals from WSe2 on Chromium and Gold. *Journal of Physical Chemistry C*, **2020**, 124, 8971-8977	3.8	4
9	In Situ Raman Microdroplet Spectroelectrochemical Investigation of CuSCN Electrodeposited on Different Substrates. *Nanomaterials*, **2021**, 11,	5.4	3

8	Electrochemistry of Graphene. *Advances in Electrochemical Science and Engineering*, **2015**, 121-162		2
7	Localized Spectroelectrochemical Identification of Basal Plane and Defect-Related Charge-Transfer Processes in Graphene.. *Journal of Physical Chemistry Letters*, **2022**, 13, 642-648	6.4	2
6	Role of surface contaminants, functionalities, defects and electronic structure: general discussion. *Faraday Discussions*, **2014**, 172, 365-95	3.6	1
5	Comparable Enhancement of TERS Signals from WSe on Chromium and Gold. *Journal of Physical Chemistry C*, **2020**, 124,	3.8	1
4	Electrolyte versus Dielectric Gating of Two-Dimensional Materials. *Journal of Physical Chemistry C*, **2021**, 125, 21803-21809	3.8	1
3	Electrochemistry of 2D nanomaterials. *Frontiers of Nanoscience*, **2021**, 485-536	0.7	1
2	Franckeite as an Exfoliable Naturally Occurring Topological Insulator. *Nano Letters*, **2021**, 21, 7781-7788	11.5	0
1	Understanding 2D Crystal Vertical Heterostructures at the Atomic Scale Using Advanced Scanning Transmission Electron Microscopy. *Microscopy and Microanalysis*, **2017**, 23, 1714-1715	0.5	