

Peter S Toth

List of Publications by Citations

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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.

38 papers	1,197 citations	18 h-index	34 g-index
38 ext. papers	1,400 ext. citations	7.5 avg, IF	4.69 L-index

#	Paper	IF	Citations
38	From two-dimensional materials to their heterostructures: An electrochemist's perspective. <i>Applied Materials Today</i> , 2017 , 8, 68-103	6.6	153
37	Electron transfer kinetics on mono- and multilayer graphene. <i>ACS Nano</i> , 2014 , 8, 10089-100	16.7	132
36	Enhanced Photoelectrochemical Performance of Cuprous Oxide/Graphene Nanohybrids. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6682-6692	16.4	93
35	Photoelectrochemistry of Pristine Mono- and Few-Layer MoS ₂ . <i>Nano Letters</i> , 2016 , 16, 2023-32	11.5	91
34	Liquid-Phase Exfoliated Indium-Selenide Flakes and Their Application in Hydrogen Evolution Reaction. <i>Small</i> , 2018 , 14, e1800749	11	68
33	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. <i>Nature Communications</i> , 2017 , 8, 14410	17.4	66
32	Functionalization of graphene at the organic/water interface. <i>Chemical Science</i> , 2015 , 6, 1316-1323	9.4	54
31	Solution blending preparation of polycarbonate/graphene composite: boosting the mechanical and electrical properties. <i>RSC Advances</i> , 2016 , 6, 97931-97940	3.7	52
30	Asymmetric MoS ₂ /Graphene/Metal Sandwiches: Preparation, Characterization, and Application. <i>Advanced Materials</i> , 2016 , 28, 8256-8264	24	50
29	Electron transfer kinetics on natural crystals of MoS ₂ and graphite. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17844-53	3.6	50
28	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	9.4	43
27	Electrochemistry of the Basal Plane versus Edge Plane of Graphite Revisited. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11677-11685	3.8	33
26	Electrochemical activity and metal deposition using few-layer graphene and carbon nanotubes assembled at the liquid-liquid interface. <i>Electrochemistry Communications</i> , 2015 , 50, 6-10	5.1	31
25	Symmetric and Asymmetric Decoration of Graphene: Bimetal-Graphene Sandwiches. <i>Advanced Functional Materials</i> , 2015 , 25, 2899-2909	15.6	30
24	Electrochemical investigation of chemical vapour deposition monolayer and bilayer graphene on the microscale. <i>Electrochimica Acta</i> , 2013 , 110, 9-15	6.7	29
23	Combination of in situ UV-Vis-NIR spectro-electrochemical and a.c. impedance measurements: A new, effective technique for studying the redox transformation of conducting electroactive materials. <i>Electrochemistry Communications</i> , 2009 , 11, 1947-1950	5.1	23
22	Controlled preparation of carbon nanotube-conducting polymer composites at the polarisable organic/water interface. <i>Electrochemistry Communications</i> , 2015 , 60, 153-157	5.1	21

21	On the unexpected cation exchange behavior, caused by covalent bond formation between PEDOT and Cl ⁻ ions: extending the conception for the polymer-dopant interactions. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5491-500	3.4	20
20	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. <i>Applied Materials Today</i> , 2017 , 8, 125-131	6.6	17
19	Novel organic solvents for electrochemistry at the liquid/liquid interface. <i>Analyst, The</i> , 2015 , 140, 1947-54	5.4	15
18	Electrosynthesis and comparative studies on carboxyl-functionalized polythiophene derivatives. <i>Electrochimica Acta</i> , 2011 , 56, 3447-3453	6.7	14
17	Application of simultaneous monitoring of the in situ impedance and optical changes on the redox transformation of two polythiophenes: Direct evidence for their non-identical conductance-charge carrier correlation. <i>Electrochemistry Communications</i> , 2010 , 12, 958-961	5.1	14
16	Application of classical and new, direct analytical methods for the elucidation of ion movements during the redox transformation of polypyrrole. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 1967-1973	3.6	13
15	Interfacial doping of carbon nanotubes at the polarisable organic/water interface: a liquid/liquid pseudo-capacitor. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7365-7371	13	13
14	Development of polymer-dopant interactions during electropolymerization, a key factor in determining the redox behaviour of conducting polymers. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 2891-2896	2.6	12
13	Mechanical stability of substrate-bound graphene in contact with aqueous solutions. <i>2D Materials</i> , 2015 , 2, 024011	5.9	10
12	Electron Tunneling through Boron Nitride Confirms Marcus-Hush Theory Predictions for Ultramicroelectrodes. <i>ACS Nano</i> , 2020 , 14, 993-1002	16.7	10
11	Preparation of low-dimensional carbon material-based metal nanocomposites using a polarizable organic/water interface. <i>Journal of Materials Research</i> , 2015 , 30, 2679-2687	2.5	9
10	Fast redox switching into the conducting state, related to single mono-cationic/polaronic charge carriers only in cation exchanger type conducting polymers. <i>Electrochemistry Communications</i> , 2012 , 18, 16-19	5.1	9
9	Hyphenated in situ conductance and spectroelectrochemical studies of polyaniline films in strongly acidic solutions. <i>Electrochimica Acta</i> , 2013 , 110, 446-451	6.7	5
8	Electrochemical synthesis and characterization of thiophene conducting polymer in aqueous micellar medium. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 635-641	2.6	5
7	Electrochemical Investigation of Adsorption of Single-Wall Carbon Nanotubes at a Liquid/Liquid Interface. <i>ChemistryOpen</i> , 2017 , 6, 57-63	2.3	4
6	Assembly and electrochemistry of carbon nanomaterials at the liquid-liquid interface. <i>Electrochimica Acta</i> , 2019 , 308, 307-316	6.7	3
5	Study on the electrodeposition of organic and inorganic thermoelectric materials for composite preparation. <i>Reaction Kinetics and Catalysis Letters</i> , 2009 , 96, 429-436		3
4	Complementary nature of voltabsorptiometric, nanogravimetric and in situ conductance results for the interpretation of conducting polymers-redox transformation. <i>Synthetic Metals</i> , 2018 , 246, 260-266	3.6	1

3	Visible Light-Generated Antiviral Effect on Plasmonic Ag-TiO-Based Reactive Nanocomposite Thin Film. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 709462	5.8	1
2	Structural Features Dictate the Photoelectrochemical Activities of Two-Dimensional MoSe and WSe Nanostructures. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7701-7710	3.8	0
1	Dependence of the polycarbonate mechanical performances on boron nitride flakes morphology. <i>JPhys Materials</i> , 2021 , 4, 045002	4.2	0