Peter S Toth

List of Publications by Year in Descending Order

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	Structural Features Dictate the Photoelectrochemical Activities of Two-Dimensional MoSe and WSe Nanostructures. *Journal of Physical Chemistry C*, **2021**, 125, 7701-7710	3.8	0
37	Dependence of the polycarbonate mechanical performances on boron nitride flakes morphology. *JPhys Materials*, **2021**, 4, 045002	4.2	0
36	Visible Light-Generated Antiviral Effect on Plasmonic Ag-TiO-Based Reactive Nanocomposite Thin Film. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 709462	5.8	1
35	Electron Tunneling through Boron Nitride Confirms Marcus-Hush Theory Predictions for Ultramicroelectrodes. *ACS Nano*, **2020**, 14, 993-1002	16.7	10
34	Electrochemistry of the Basal Plane versus Edge Plane of Graphite Revisited. *Journal of Physical Chemistry C*, **2019**, 123, 11677-11685	3.8	33
33	Assembly and electrochemistry of carbon nanomaterials at the liquid-liquid interface. *Electrochimica Acta*, **2019**, 308, 307-316	6.7	3
32	Complementary nature of voltabsorptiometric, nanogravimetric and in situ conductance results for the interpretation of conducting polymers redox transformation. *Synthetic Metals*, **2018**, 246, 260-266	3.6	1
31	Liquid-Phase Exfoliated Indium-Selenide Flakes and Their Application in Hydrogen Evolution Reaction. *Small*, **2018**, 14, e1800749	11	68
30	Exfoliation of natural van der Waals heterostructures to a single unit cell thickness. *Nature Communications*, **2017**, 8, 14410	17.4	66
29	Enhanced Photoelectrochemical Performance of Cuprous Oxide/Graphene Nanohybrids. *Journal of the American Chemical Society*, **2017**, 139, 6682-6692	16.4	93
28	From two-dimensional materials to their heterostructures: An electrochemist's perspective. *Applied Materials Today*, **2017**, 8, 68-103	6.6	153
27	Electrochemical Investigation of Adsorption of Single-Wall Carbon Nanotubes at a Liquid/Liquid Interface. *ChemistryOpen*, **2017**, 6, 57-63	2.3	4
26	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. *Applied Materials Today*, **2017**, 8, 125-131	6.6	17
25	Asymmetric MoS /Graphene/Metal Sandwiches: Preparation, Characterization, and Application. *Advanced Materials*, **2016**, 28, 8256-8264	24	50
24	Photoelectrochemistry of Pristine Mono- and Few-Layer MoS2. *Nano Letters*, **2016**, 16, 2023-32	11.5	91
23	Interfacial doping of carbon nanotubes at the polarisable organic/water interface: a liquid/liquid pseudo-capacitor. *Journal of Materials Chemistry A*, **2016**, 4, 7365-7371	13	13
22	Solution blending preparation of polycarbonate/graphene composite: boosting the mechanical and electrical properties. *RSC Advances*, **2016**, 6, 97931-97940	3.7	52

21	Novel organic solvents for electrochemistry at the liquid/liquid interface. *Analyst, The*, **2015**, 140, 1947-54	4.2	15
20	Development of polymer–dopant interactions during electropolymerization, a key factor in determining the redox behaviour of conducting polymers. *Journal of Solid State Electrochemistry*, **2015**, 19, 2891-2896	2.6	12
19	Symmetric and Asymmetric Decoration of Graphene: Bimetal-Graphene Sandwiches. *Advanced Functional Materials*, **2015**, 25, 2899-2909	15.6	30
18	Controlled preparation of carbon nanotube-conducting polymer composites at the polarisable organic/water interface. *Electrochemistry Communications*, **2015**, 60, 153-157	5.1	21
17	Functionalization of graphene at the organic/water interface. *Chemical Science*, **2015**, 6, 1316-1323	9.4	54
16	Electrochemical activity and metal deposition using few-layer graphene and carbon nanotubes assembled at the liquid–liquid interface. *Electrochemistry Communications*, **2015**, 50, 6-10	5.1	31
15	Preparation of low-dimensional carbon material-based metal nanocomposites using a polarizable organic/water interface. *Journal of Materials Research*, **2015**, 30, 2679-2687	2.5	9
14	Electron transfer kinetics on natural crystals of MoS2 and graphite. *Physical Chemistry Chemical Physics*, **2015**, 17, 17844-53	3.6	50
13	Mechanical stability of substrate-bound graphene in contact with aqueous solutions. *2D Materials*, **2015**, 2, 024011	5.9	10
12	Electron transfer kinetics on mono- and multilayer graphene. *ACS Nano*, **2014**, 8, 10089-100	16.7	132
11	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
10	Electrochemical investigation of chemical vapour deposition monolayer and bilayer graphene on the microscale. *Electrochimica Acta*, **2013**, 110, 9-15	6.7	29
9	Hyphenated in situ conductance and spectroelectrochemical studies of polyaniline films in strongly acidic solutions. *Electrochimica Acta*, **2013**, 110, 446-451	6.7	5
8	Electrochemical synthesis and characterization of thiophene conducting polymer in aqueous micellar medium. *Journal of Solid State Electrochemistry*, **2013**, 17, 635-641	2.6	5
7	Fast redox switching into the conducting state, related to single mono-cationic/polaronic charge carriers only in cation exchanger type conducting polymers. *Electrochemistry Communications*, **2012**, 18, 16-19	5.1	9
6	On the unexpected cation exchange behavior, caused by covalent bond formation between PEDOT and Cl- ions: extending the conception for the polymer-dopant interactions. *Journal of Physical Chemistry B*, **2012**, 116, 5491-500	3.4	20
5	Electrosynthesis and comparative studies on carboxyl-functionalized polythiophene derivatives. *Electrochimica Acta*, **2011**, 56, 3447-3453	6.7	14
4	Application of classical and new, direct analytical methods for the elucidation of ion movements during the redox transformation of polypyrrole. *Journal of Solid State Electrochemistry*, **2010**, 14, 1967-1973	2.6	13

3	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. *Electrochemistry Communications*, **2010**, 12, 958-961	5.1	14
2	Study on the electrodeposition of organic and inorganic thermoelectric materials for composite preparation. *Reaction Kinetics and Catalysis Letters*, **2009**, 96, 429-436		3
1	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. *Electrochemistry Communications*, **2009**, 11, 1947-1950	5.1	23