Stephen E Creager

List of Publications by Year
in descending order

64 papers	2,766 citations	361413 20 h-index	223800 46 g-index
64 all docs	64 docs citations	64 times ranked	2674 citing authors

#	Article	IF	Citations
1	Electron Transfer at Electrodes through Conjugated â€œMolecular Wireâ€•Bridges. Journal of the American Chemical Society, 1999, 121, 1059-1064.	13.7	414
2	Redox and ion-pairing thermodynamics in self-assembled monolayers. Langmuir, 1991, 7, 2307-2312.	3.5	338
3	Long-Range Electronic Coupling between Ferrocene and Gold in Alkanethiolate-based Monolayers on Electrodes. Journal of Physical Chemistry B, 1997, 101, 8286-8291.	2.6	236
4	A New Way of Using ac Voltammetry To Study Redox Kinetics in Electroactive Monolayers. Analytical Chemistry, 1998, 70, 4257-4263.	6.5	225
5	Electron Transfer at Self-Assembled Monolayers Measured by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2004, 126, 1485-1492.	13.7	201
6	Consequences of microscopic surface roughness for molecular self-assembly. Langmuir, 1992, 8, 854-861.	3.5	200
7	Competitive self-assembly and electrochemistry of some ferrocenyl-n-alkanethiol derivatives on gold. Journal of Electroanalytical Chemistry, 1994, 370, 203-211.	3.8	119
8	Redox Kinetics in Monolayers on Electrodes:â€‰ Electron Transfer Is Sluggish for Ferrocene Groups Buried within the Monolayer Interior. Journal of Physical Chemistry B, 2001, 105, 8739-8745.	2.6	118
9	Electrochemical Rectification at a Monolayer-Modified Electrode. The Journal of Physical Chemistry, 1996, 100, 17050-17058.	2.9	99
10	Chain Length and Solvent Effects on Competitive Self-Assembly of Ferrocenylhexanethiol and 1-Alkanethiols onto Gold. Langmuir, 1994, 10, 1186-1192.	3.5	94
11	Inkjet-printed electrochromic devices utilizing polyanilineâ€“silica and poly(3,4-ethylenedioxythiophene)â€“silica colloidal composite particles. Journal of Materials Chemistry, 2008, 18, 594.	6.7	86
12	Selective Proton/Deuteron Transport through Nafion | Graphene | Nafion Sandwich Structures at High Current Density. Journal of the American Chemical Society, 2018, 140, 1743-1752.	13.7	75
13	Nanobiosensing with graphene and carbon quantum dots: Recent advances. Materials Today, 2020, 39, 23-46.	14.2	66
14	Enhanced Barrier Properties of Alkanethiol-Coated Gold Electrodes by 1-Octanol in Solution. Langmuir, 1998, 14, 2129-2133.	3.5	42
15	Perfluoroalkyl Phosphonic and Phosphinic Acids as Proton Conductors for Anhydrous Protonâ€Exchange Membranes. ChemPhysChem, 2010, 11, 2871-2878.	2.1	38
16	Single-Layer Graphene Sandwiched between Proton-Exchange Membranes for Selective Proton Transmission. ACS Applied Nano Materials, 2019, 2, 964-974.	5.0	32
17	Highly Luminescent Heavier Main Group Analogues of Boron-Dipyrromethene. Journal of the American Chemical Society, 2019, 141, 8703-8707.	13.7	30
18	Solvents and Supporting Electrolytes. , 2007, , 57-72.		28

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19	A Signal Amplification Scheme for Ultrasensitive Amperometric Detection in Flowing Streams. Analytical Chemistry, 1999, 71, 5101-5108.	6.5	24
20	High-Resolution Ion-Flux Imaging of Proton Transport through Graphene | Nafion Membranes. ACS Nano, 2022, 16, 5233-5245.	14.6	23
21	Asymmetric polysilazane-derived ceramic structures with multiscalar porosity for membrane applications. Microporous and Mesoporous Materials, 2016, 232, 196-204.	4.4	22
22	Ionic conduction in polyether-based lithium arylfluorosulfonimide ionic melt electrolytes. Electrochimica Acta, 2009, 54, 5877-5883.	5.2	21
23	Enhanced Signal Amplification in a Toll-like Receptor-4 Biosensor Utilizing Ferrocene-Terminated Mixed Monolayers. ACS Sensors, 2019, 4, 143-151.	7.8	21
24	Single Layer Graphene for Estimation of Axial Spatial Resolution in Confocal Raman Microscopy Depth Profiling. Analytical Chemistry, 2019, 91, 1049-1055.	6.5	20
25	A new fluorinated anion for room-temperature ionic liquids. Journal of Fluorine Chemistry, 2011, 132, 52-56.	1.7	18
26	Electrochemical Grafting of an Aryl Fluorosulfonimide Electrolyte onto Glassy Carbon. Langmuir, 2006, 22, 10747-10753.	3.5	15
27	Electrochemical tuning the optical properties of crystalline colloidal arrays composed of poly(3,4-ethylenedioxythiophene) coated silica particles. Journal of Materials Chemistry, 2007, 17, 1149.	6.7	15
28	Effect of Perfluoroalkyl Chain Length on Proton Conduction in Fluoroalkylated Phosphonic, Phosphinic, and Sulfonic Acids. Journal of Physical Chemistry B, 2010, 114, 14972-14976.	2.6	15
29	A convenient miniature test platform for polyelectrolyte membrane fuel-cell research. Journal of Electroanalytical Chemistry, 2017, 797, 8-15.	3.8	14
30	A Versatile Carbon Nanotube-Based Scalable Approach for Improving Interfaces in Li-Ion Battery Electrodes. ACS Omega, 2018, 3, 4502-4508.	3.5	14
31	Mesoporous Carbon/Zirconia Composites: A Potential Route to Chemically Functionalized Electrically-Conductive Mesoporous Materials. Langmuir, 2012, 28, 3259-3270.	3.5	13
32	Alternative Trifluorovinyl Ether Derived Fluoropolymer Membranes and Functionalized Carbon Composite Electrodes for Fuel Cells. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 2006, 46, 297-313.	2.2	11
33	A charge-transfer resistance model and Arrhenius activation analysis for hydrogen ion transmission across single-layer graphene. Electrochimica Acta, 2019, 296, 1-7.	5.2	10
34	Optimized statically nonâ€wetting hydrophobic electrospun surface of perfluorocyclobutyl aryl ether polymer. Polymer International, 2013, 62, 1152-1158.	3.1	9
35	Preparation and characterization of superporous agaroseâ€“reticulated vitreous carbon electrodes as platforms for electrochemical bioassays. Analytica Chimica Acta, 2008, 622, 1-10.	5.4	8
36	Vibrational Spectroscopy for the Determination of Ionizable Group Content in Ionomer Materials. Applied Spectroscopy, 2018, 72, 141-150.	2.2	8

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37	Evaluation of non-specific binding suppression schemes for neutravidin and alkaline phosphatase at the surface of reticulated vitreous carbon electrodes. Analytica Chimica Acta, 2010, 657, 154-162.	5.4	6
38	Effects of Atomic-Layer-Deposition Alumina on Proton Transmission through Single-Layer Graphene in Electrochemical Hydrogen Pump Cells. ACS Applied Energy Materials, 2020, 3, 1364-1372.	5.1	6
39	Superporous agaroseâ€"Reticulated vitreous carbon electrodes for electrochemical sandwich bioassays. Analytica Chimica Acta, 2008, 628, 190-197.	5.4	5
40	Electrochemical Behavior of Platinum Nanoparticles on a Carbon Xerogel Support Modified with a [(Trifluoromethyl)-benzenesulfonyl]imide Electrolyte. Journal of Physical Chemistry B, 2014, 118, 14115-14123.	2.6	5
41	Graphene-Based Proton Transmission and Hydrogen Crossover Mitigation in Electrochemical Hydrogen Pump Cells. ECS Transactions, 2019, 92, 439-444.	0.5	5
42	Enhanced Proton Selectivity in Ionomer Nanocomposites Containing Hydrophobically Functionalized Silica Nanoparticles. Macromolecules, 2021, 54, 440-449.	4.8	5
43	Digital Simulation and Experimental Validation of Redox Mediation at an Electroactive Monolayer-Coated Electrode. Journal of the Electrochemical Society, 2020, 167, 046512.	2.9	5
44	Rational design of methacrylate monomers containing oxadiazole moieties for singleâ€layer organic light emitting devices. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1663-1673.	2.1	3
45	Role of nanoparticle size and surface chemistry on ion transport and nanostructure of perfluorosulfonic acid ionomer nanocomposites. Soft Matter, 2022, 18, 3342-3357.	2.7	2
46	Electrochemical dioxygen reduction catalyzed by a (nitro)cobalt(perfluorophthalocyanine) complex and the possibility of a peroxynitro complex intermediate. Journal of Porphyrins and Phthalocyanines, 2015, 19, 1185-1196.	0.8	1
47	Ultrasensitive Detection of Surfaceâ€Confined Redox Molecules by Mediationâ€Based Amplification. ChemElectroChem, 2021, 8, 1873-1880.	3.4	1
48	Postface: Nanomaterials for Energy, A Look Forward. ACS Symposium Series, 2015, , 269-275.	0.5	0
49	Proton Transfer Can Occur at High Rates through Single-Layer Graphene in Nafion | Graphene | Nafion Sandwich Structures. ECS Meeting Abstracts, 2018, , .	0.0	0
50	Spreadsheet-Based Cyclic Voltammetry Simulation of Mediated Ferrocyanide Oxidation By Ferrocene Derivatives in Alkanethiol-Based Self-Assembled Monolayers on Gold Electrodes. ECS Meeting Abstracts, 2018, , .	0.0	0
51	Electrochemical Proton / Deuteron Separation in Nafion | Graphene | Nafion Hydrogen Pump Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
52	Macroporous Lithium Battery Cathodes Prepared By Aqueous Freeze Casting. ECS Meeting Abstracts, 2018, , .	0.0	0
53	Polyelectrolyte membrane PEM and fuelcell catalyst studies using a miniaturized PEM fuel cell test fixture. , 2018, , .		0
54	Ferrocenyl-Based Signal Amplification across Self-Assembled Monolayers in Electrochemical Biosensors. ECS Meeting Abstracts, 2018, , .	0.0	0

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55	A Charge-Transfer-Resistance Model for Proton Transmission through CVD Single-Layer Graphene in Proton-Exchange-Membrane Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
56	Studies on Proton Transmission across Graphene in Proton-Exchange Membrane Structures. ECS Meeting Abstracts, 2019, , .	0.0	0
57	Protons Are Transmitted across Single-Layer Graphene in Proton-Exchange-Membrane (PEM) Sandwich Structures More Than 100 Times Faster Than Other Cations. ECS Meeting Abstracts, 2019, , .	0.0	0
58	Comsol Simulation of Hierarchical Ordered Porous Microstructure Electrode. ECS Meeting Abstracts, 2019, , .	0.0	0
59	High Performance Li-Ion Battery Electrode with Hierarchical Ordered Porous Microstructure. ECS Meeting Abstracts, 2019, , .	0.0	0
60	Graphene-Based Proton Transmission and Hydrogen Crossover Mitigation in Electrochemical Hydrogen Pump Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
61	Vibrational Spectroscopy in the Study of Composite and Nanostructured Materials for Electrochemistry. ECS Meeting Abstracts, 2020, MA2020-01, 2738-2738.	0.0	0
62	Rapid Proton Transmission through Nafion | Graphene | ALD Alumina | Nafion Membranes. ECS Meeting Abstracts, 2020, MA2020-01, 814-814.	0.0	0
63	Depth-Profiling Buried Interfaces within Polymer Electrolyte Membranes. ECS Meeting Abstracts, 2020, MA2020-01, 1642-1642.	0.0	0
64	Selective Cation Transport through Graphene in Nafion | Graphene | Nafion Membranes. ECS Meeting Abstracts, 2020, MA2020-01, 2707-2707.	0.0	0