

# Stephen E Creager

## List of Publications by Year in descending order

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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	Role of nanoparticle size and surface chemistry on ion transport and nanostructure of perfluorosulfonic acid ionomer nanocomposites. <i>Soft Matter</i> , 2022, 18, 3342-3357.	2.7	2
2	High-Resolution Ion-Flux Imaging of Proton Transport through Graphene   Nafion Membranes. <i>ACS Nano</i> , 2022, 16, 5233-5245.	14.6	23
3	Ultrasensitive Detection of Surface-Confined Redox Molecules by Mediation-Based Amplification. <i>ChemElectroChem</i> , 2021, 8, 1873-1880.	3.4	1
4	Enhanced Proton Selectivity in Ionomer Nanocomposites Containing Hydrophobically Functionalized Silica Nanoparticles. <i>Macromolecules</i> , 2021, 54, 440-449.	4.8	5
5	Nanobiosensing with graphene and carbon quantum dots: Recent advances. <i>Materials Today</i> , 2020, 39, 23-46.	14.2	66
6	Effects of Atomic-Layer-Deposition Alumina on Proton Transmission through Single-Layer Graphene in Electrochemical Hydrogen Pump Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 1364-1372.	5.1	6
7	Digital Simulation and Experimental Validation of Redox Mediation at an Electroactive Monolayer-Coated Electrode. <i>Journal of the Electrochemical Society</i> , 2020, 167, 046512.	2.9	5
8	Vibrational Spectroscopy in the Study of Composite and Nanostructured Materials for Electrochemistry. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2738-2738.	0.0	0
9	Rapid Proton Transmission through Nafion   Graphene   ALD Alumina   Nafion Membranes. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 814-814.	0.0	0
10	Depth-Profiling Buried Interfaces within Polymer Electrolyte Membranes. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1642-1642.	0.0	0
11	Selective Cation Transport through Graphene in Nafion   Graphene   Nafion Membranes. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2707-2707.	0.0	0
12	Graphene-Based Proton Transmission and Hydrogen Crossover Mitigation in Electrochemical Hydrogen Pump Cells. <i>ECS Transactions</i> , 2019, 92, 439-444.	0.5	5
13	Highly Luminescent Heavier Main Group Analogues of Boron-Dipyrromethene. <i>Journal of the American Chemical Society</i> , 2019, 141, 8703-8707.	13.7	30
14	Enhanced Signal Amplification in a Toll-like Receptor-4 Biosensor Utilizing Ferrocene-Terminated Mixed Monolayers. <i>ACS Sensors</i> , 2019, 4, 143-151.	7.8	21
15	A charge-transfer resistance model and Arrhenius activation analysis for hydrogen ion transmission across single-layer graphene. <i>Electrochimica Acta</i> , 2019, 296, 1-7.	5.2	10
16	Single-Layer Graphene Sandwiched between Proton-Exchange Membranes for Selective Proton Transmission. <i>ACS Applied Nano Materials</i> , 2019, 2, 964-974.	5.0	32
17	Single Layer Graphene for Estimation of Axial Spatial Resolution in Confocal Raman Microscopy Depth Profiling. <i>Analytical Chemistry</i> , 2019, 91, 1049-1055.	6.5	20
18	A Charge-Transfer-Resistance Model for Proton Transmission through CVD Single-Layer Graphene in Proton-Exchange-Membrane Cells. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0

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19	Studies on Proton Transmission across Graphene in Proton-Exchange Membrane Structures. ECS Meeting Abstracts, 2019, , .	0.0	0
20	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
21	Comsol Simulation of Hierarchical Ordered Porous Microstructure Electrode. ECS Meeting Abstracts, 2019, , .	0.0	0
22	High Performance Li-Ion Battery Electrode with Hierarchical Ordered Porous Microstructure. ECS Meeting Abstracts, 2019, , .	0.0	0
23	Graphene-Based Proton Transmission and Hydrogen Crossover Mitigation in Electrochemical Hydrogen Pump Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
24	A Versatile Carbon Nanotube-Based Scalable Approach for Improving Interfaces in Li-Ion Battery Electrodes. ACS Omega, 2018, 3, 4502-4508.	3.5	14
25	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
26	Vibrational Spectroscopy for the Determination of Ionizable Group Content in Ionomer Materials. Applied Spectroscopy, 2018, 72, 141-150.	2.2	8
27	Proton Transfer Can Occur at High Rates through Single-Layer Graphene in Nafion   Graphene   Nafion Sandwich Structures. ECS Meeting Abstracts, 2018, , .	0.0	0
28	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
29	Electrochemical Proton / Deuteron Separation in Nafion   Graphene   Nafion Hydrogen Pump Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
30	Macroporous Lithium Battery Cathodes Prepared By Aqueous Freeze Casting. ECS Meeting Abstracts, 2018, , .	0.0	0
31	Polyelectrolyte membrane PEM and fuelcell catalyst studies using a miniaturized PEM fuel cell test fixture. , 2018, , .		0
32	Ferrocenyl-Based Signal Amplification across Self-Assembled Monolayers in Electrochemical Biosensors. ECS Meeting Abstracts, 2018, , .	0.0	0
33	A convenient miniature test platform for polyelectrolyte membrane fuel-cell research. Journal of Electroanalytical Chemistry, 2017, 797, 8-15.	3.8	14
34	Asymmetric polysilazane-derived ceramic structures with multiscalar porosity for membrane applications. Microporous and Mesoporous Materials, 2016, 232, 196-204.	4.4	22
35	Rational design of methacrylate monomers containing oxadiazole moieties for single-layer organic light emitting devices. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1663-1673.	2.1	3
36	Postface: Nanomaterials for Energy, A Look Forward. ACS Symposium Series, 2015, , 269-275.	0.5	0

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37	Electrochemical dioxygen reduction catalyzed by a (nitro)cobalt(perfluorophthalocyanine) complex and the possibility of a peroxy-nitro complex intermediate. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015, 19, 1185-1196.	0.8	1
38	Electrochemical Behavior of Platinum Nanoparticles on a Carbon Xerogel Support Modified with a [(Trifluoromethyl)-benzenesulfonyl]imide Electrolyte. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14115-14123.	2.6	5
39	Optimized statically non-wetting hydrophobic electrospun surface of perfluorocyclobutyl aryl ether polymer. <i>Polymer International</i> , 2013, 62, 1152-1158.	3.1	9
40	Mesoporous Carbon/Zirconia Composites: A Potential Route to Chemically Functionalized Electrically-Conductive Mesoporous Materials. <i>Langmuir</i> , 2012, 28, 3259-3270.	3.5	13
41	A new fluorinated anion for room-temperature ionic liquids. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 52-56.	1.7	18
42	Perfluoroalkyl Phosphonic and Phosphinic Acids as Proton Conductors for Anhydrous Proton-Exchange Membranes. <i>ChemPhysChem</i> , 2010, 11, 2871-2878.	2.1	38
43	Evaluation of non-specific binding suppression schemes for neutravidin and alkaline phosphatase at the surface of reticulated vitreous carbon electrodes. <i>Analytica Chimica Acta</i> , 2010, 657, 154-162.	5.4	6
44	Effect of Perfluoroalkyl Chain Length on Proton Conduction in Fluoroalkylated Phosphonic, Phosphinic, and Sulfonic Acids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14972-14976.	2.6	15
45	Ionic conduction in polyether-based lithium arylfluorosulfonimide ionic melt electrolytes. <i>Electrochimica Acta</i> , 2009, 54, 5877-5883.	5.2	21
46	Superporous agarose-reticulated vitreous carbon electrodes for electrochemical sandwich bioassays. <i>Analytica Chimica Acta</i> , 2008, 628, 190-197.	5.4	5
47	Preparation and characterization of superporous agarose-reticulated vitreous carbon electrodes as platforms for electrochemical bioassays. <i>Analytica Chimica Acta</i> , 2008, 622, 1-10.	5.4	8
48	Inkjet-printed electrochromic devices utilizing polyaniline-silica and poly(3,4-ethylenedioxythiophene)-silica colloidal composite particles. <i>Journal of Materials Chemistry</i> , 2008, 18, 594.	6.7	86
49	Solvents and Supporting Electrolytes. , 2007, , 57-72.		28
50	Electrochemical tuning the optical properties of crystalline colloidal arrays composed of poly(3,4-ethylenedioxythiophene) coated silica particles. <i>Journal of Materials Chemistry</i> , 2007, 17, 1149.	6.7	15
51	Alternative Trifluorovinyl Ether Derived Fluoropolymer Membranes and Functionalized Carbon Composite Electrodes for Fuel Cells. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006, 46, 297-313.	2.2	11
52	Electrochemical Grafting of an Aryl Fluorosulfonimide Electrolyte onto Glassy Carbon. <i>Langmuir</i> , 2006, 22, 10747-10753.	3.5	15
53	Electron Transfer at Self-Assembled Monolayers Measured by Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 1485-1492.	13.7	201
54	Redox Kinetics in Monolayers on Electrodes: Electron Transfer Is Sluggish for Ferrocene Groups Buried within the Monolayer Interior. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8739-8745.	2.6	118

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55	Electron Transfer at Electrodes through Conjugated $\pi$ -Molecular Wire Bridges. <i>Journal of the American Chemical Society</i> , 1999, 121, 1059-1064.	13.7	414
56	A Signal Amplification Scheme for Ultrasensitive Amperometric Detection in Flowing Streams. <i>Analytical Chemistry</i> , 1999, 71, 5101-5108.	6.5	24
57	Enhanced Barrier Properties of Alkanethiol-Coated Gold Electrodes by 1-Octanol in Solution. <i>Langmuir</i> , 1998, 14, 2129-2133.	3.5	42
58	A New Way of Using ac Voltammetry To Study Redox Kinetics in Electroactive Monolayers. <i>Analytical Chemistry</i> , 1998, 70, 4257-4263.	6.5	225
59	Long-Range Electronic Coupling between Ferrocene and Gold in Alkanethiolate-based Monolayers on Electrodes. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8286-8291.	2.6	236
60	Electrochemical Rectification at a Monolayer-Modified Electrode. <i>The Journal of Physical Chemistry</i> , 1996, 100, 17050-17058.	2.9	99
61	Competitive self-assembly and electrochemistry of some ferrocenyl-n-alkanethiol derivatives on gold. <i>Journal of Electroanalytical Chemistry</i> , 1994, 370, 203-211.	3.8	119
62	Chain Length and Solvent Effects on Competitive Self-Assembly of Ferrocenylhexanethiol and 1-Alkanethiols onto Gold. <i>Langmuir</i> , 1994, 10, 1186-1192.	3.5	94
63	Consequences of microscopic surface roughness for molecular self-assembly. <i>Langmuir</i> , 1992, 8, 854-861.	3.5	200
64	Redox and ion-pairing thermodynamics in self-assembled monolayers. <i>Langmuir</i> , 1991, 7, 2307-2312.	3.5	338