

# Susan K Fullerton-Shirey

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

2,172  
citations

279798

23  
h-index

223800

46  
g-index

62  
all docs

62  
docs citations

62  
times ranked

4154  
citing authors

#	ARTICLE	IF	CITATIONS
1	A ready-to-use, thermoresponsive, and extended-release delivery system for the paranasal sinuses. Drug Delivery and Translational Research, 2022, 12, 708-719.	5.8	0
2	Combining Hyperbranched and Linear Structures in Solid Polymer Electrolytes to Enhance Mechanical Properties and Room-Temperature Ion Transport. Frontiers in Chemistry, 2021, 9, 563864.	3.6	4
3	Photoluminescence Switching Effect in a Two-Dimensional Atomic Crystal. ACS Nano, 2021, 15, 19439-19445.	14.6	4
4	Scalable BEOL compatible 2D tungsten diselenide. 2D Materials, 2020, 7, 015029.	4.4	41
5	Silver Nanofilament Formation Dynamics in a Polymer-Ionic Liquid Thin Film by Direct Write. Advanced Functional Materials, 2020, 30, 1907950.	14.9	4
6	Modification of the Electronic Transport in Atomically Thin $WSe_2$ by Oxidation. Advanced Materials Interfaces, 2020, 7, 2000422.	3.7	11
7	Single- versus Dual-Ion Conductors for Electric Double Layer Gating: Finite Element Modeling and Hall-Effect Measurements. ACS Applied Materials & Interfaces, 2020, 12, 40850-40858.	8.0	6
8	Electric-double-layer p-n junctions in $WSe_2$ . Scientific Reports, 2020, 10, 12890.	3.3	4
9	Tuning transport across $MoS_2$ /graphene interfaces via as-grown lateral heterostructures. Npj 2D Materials and Applications, 2020, 4, .	7.9	12
10	Batch-Fabricated $WSe_2$ -on-Sapphire Field-Effect Transistors Grown by Chemical Vapor Deposition. IEEE Transactions on Electron Devices, 2020, 67, 1839-1844.	3.0	5
11	Ion-Locking in Solid Polymer Electrolytes for Reconfigurable Gateless Lateral Graphene p-n Junctions. Materials, 2020, 13, 1089.	2.9	7
12	Triggerable Ion Release in Polymerized Ionic Liquids Containing Thermally Labile Diels-Alder Linkages. , 2020, 2, 331-335.		6
13	Electric-double-layer-gated transistors based on two-dimensional crystals: recent approaches and advances. JPhys Materials, 2020, 3, 032001.	4.2	34
14	Electric-field-induced optical hysteresis in single-layer $WSe_2$ . Applied Physics Letters, 2019, 115, 161103.	3.3	3
15	Room-Temperature Graphene-Nanoribbon Tunneling Field-Effect Transistors. Npj 2D Materials and Applications, 2019, 3, .	7.9	26
16	Molecularly Thin Electrolyte for All Solid-State Nonvolatile Two-Dimensional Crystal Memory. Nano Letters, 2019, 19, 8911-8919.	9.1	6
17	Electric Double-Layer Gating of Two-Dimensional Field-Effect Transistors Using a Single-Ion Conductor. ACS Applied Materials & Interfaces, 2019, 11, 35879-35887.	8.0	20
18	Two-dimensional electric-double-layer Esaki diode. Npj 2D Materials and Applications, 2019, 3, .	7.9	27

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19	Nanopore-Templated Silver Nanoparticle Arrays Photopolymerized in Zero-Mode Waveguides. <i>Frontiers in Chemistry</i> , 2019, 7, 216.	3.6	4
20	Effect of Nanoparticle Shape on the Electrical and Thermal Properties of Solid Polymer Electrolytes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10720-10726.	3.1	32
21	Impact of Post-Lithography Polymer Residue on the Electrical Characteristics of MoS <sub>2</sub> and WSe <sub>2</sub> Field Effect Transistors. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801321.	3.7	56
22	2D Materials: Tuning the Electronic and Photonic Properties of Monolayer MoS <sub>2</sub> via In Situ Rhenium Substitutional Doping ( <i>Adv. Funct. Mater.</i> 16/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870105.	14.9	1
23	Tuning the Electronic and Photonic Properties of Monolayer MoS <sub>2</sub> via In Situ Rhenium Substitutional Doping. <i>Advanced Functional Materials</i> , 2018, 28, 1706950.	14.9	137
24	Realizing Large-Scale, Electronic-Grade Two-Dimensional Semiconductors. <i>ACS Nano</i> , 2018, 12, 965-975.	14.6	172
25	Using Ions to Control Transport in Two-Dimensional Materials for Ion-Controlled Electronics. , 2018, , .		0
26	Pulse Dynamics of Electric Double Layer Formation on All-Solid-State Graphene Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43166-43176.	8.0	25
27	Considerations for Utilizing Sodium Chloride in Epitaxial Molybdenum Disulfide. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40831-40837.	8.0	58
28	Direct-Write Formation and Dissolution of Silver Nanofilaments in Ionic Liquid-Polymer Electrolyte Composites. <i>Small</i> , 2018, 14, 1802023.	10.0	4
29	Energetics of metal ion adsorption on and diffusion through crown ethers: First principles study on two-dimensional electrolyte. <i>Solid State Ionics</i> , 2017, 301, 176-181.	2.7	9
30	Growth Mode Transition from Monolayer by Monolayer to Bilayer by Bilayer in Molecularly Flat Titanyl Phthalocyanine Film. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6721-6728.	3.1	19
31	Addressable Direct-Write Nanoscale Filament Formation and Dissolution by Nanoparticle-Mediated Bipolar Electrochemistry. <i>ACS Nano</i> , 2017, 11, 4976-4984.	14.6	20
32	Monolayer Solid-State Electrolyte for Electric Double Layer Gating of Graphene Field-Effect Transistors. <i>ACS Nano</i> , 2017, 11, 5453-5464.	14.6	40
33	Properties of synthetic epitaxial graphene/molybdenum disulfide lateral heterostructures. <i>Carbon</i> , 2017, 125, 551-556.	10.3	27
34	Electric Double Layer Dynamics in Poly(ethylene oxide) LiClO <sub>4</sub> on Graphene Transistors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16996-17004.	3.1	24
35	Increasing the Room-Temperature Electric Double Layer Retention Time in Two-Dimensional Crystal FETs. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 25006-25013.	8.0	12
36	Uniform large-area growth of nanotemplated high-quality monolayer MoS <sub>2</sub> . <i>Applied Physics Letters</i> , 2017, 110, 263103.	3.3	8

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37	Deconvoluting the Photonic and Electronic Response of 2D Materials: The Case of MoS <sub>2</sub> . Scientific Reports, 2017, 7, 16938.	3.3	23
38	Silica-coated ruthenium-complex nanoprobe for two-photon oxygen microscopy in biological media. Optical Materials Express, 2017, 7, 1066.	3.0	5
39	Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> on WSe <sub>2</sub> Functionalized by Titanyl Phthalocyanine. ACS Nano, 2016, 10, 6888-6896.	14.6	69
40	Electric-double-layer doping of WSe <sub>2</sub> field-effect transistors using polyethylene-oxide cesium perchlorate. Journal of Applied Physics, 2016, 120, .	2.5	20
41	2D materials advances: from large scale synthesis and controlled heterostructures to improved characterization techniques, defects and applications. 2D Materials, 2016, 3, 042001.	4.4	408
42	Demonstration of electric double layer p-i-n junction in WSe <sub>2</sub> . , 2016, , .		2
43	Record high current density and low contact resistance in MoS <sub>2</sub> FETs by ion doping. , 2016, , .		6
44	Scanning Tunneling Microscopy and Spectroscopy of Air Exposure Effects on Molecular Beam Epitaxy Grown WSe <sub>2</sub> Monolayers and Bilayers. ACS Nano, 2016, 10, 4258-4267.	14.6	72
45	Highly Stable Two-photon Oxygen Imaging Probe Based on a Ruthenium-Complex Encapsulated in a Silica-coated Nanomicelle. , 2016, , .		0
46	Reconfigurable p-n junction formation and bandgap opening in bilayer graphene using polyethylene oxide and CsClO <sub>4</sub> solid polymer electrolyte. , 2015, , .		1
47	Steep subthreshold swing tunnel FETs: GaN/InN/GaN and transition metal dichalcogenide channels. , 2015, , .		18
48	Reconfigurable Ion Gating of 2H-MoTe <sub>2</sub> Field-Effect Transistors Using Poly(ethylene) Tj ETQqO 0 0 rgBTj/Overlock 10 Tf 50	14.6	110
49	<i>In Situ</i> Observation of Initial Stage in Dielectric Growth and Deposition of Ultrahigh Nucleation Density Dielectric on Two-Dimensional Surfaces. Nano Letters, 2015, 15, 6626-6633.	9.1	24
50	First-Principles Study of Crown Ether and Crown Ether-Li Complex Interactions with Graphene. Journal of Physical Chemistry C, 2015, 119, 20016-20022.	3.1	11
51	Solution-Cast Monolayers of Cobalt Crown Ether Phthalocyanine on Highly Ordered Pyrolytic Graphite. Journal of Physical Chemistry C, 2015, 119, 21992-22000.	3.1	9
52	Easily prepared ruthenium-complex nanomicelle probes for two-photon quantitative imaging of oxygen in aqueous media. RSC Advances, 2015, 5, 291-300.	3.6	26
53	Investigation of aging and restoration of polyethylene-oxide cesium-perchlorate solid polymer electrolyte used for ion doping of a WSe <sub>2</sub> field-effect transistor. , 2014, , .		1
54	Magnetic Alignment of Gamma (Core)â€Alpha (Shell) Fe <sub>2</sub> O <sub>3</sub> Nanorods in a Solid Polymer Electrolyte for Li-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 18836-18845.	3.1	22

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55	Loading and Distribution of a Model Small Molecule Drug in Poly( <i>N</i> -isopropylacrylamide) Brushes: a Neutron Reflectometry and AFM Study. <i>Langmuir</i> , 2013, 29, 3259-3268.	3.5	17
56	Influence of Fe <sub>2</sub> O <sub>3</sub> Nanofiller Shape on the Conductivity and Thermal Properties of Solid Polymer Electrolytes: Nanorods versus Nanospheres. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21216-21223.	3.1	69
57	Influence of thermal history and humidity on the ionic conductivity of nanoparticle-filled solid polymer electrolytes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1496-1505.	2.1	19
58	Structure and Mobility of PEO/LiClO <sub>4</sub> Solid Polymer Electrolytes Filled with Al <sub>2</sub> O <sub>3</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9196-9206.	3.1	109
59	Effect of LiClO <sub>4</sub> on the Structure and Mobility of PEO-Based Solid Polymer Electrolytes. <i>Macromolecules</i> , 2009, 42, 2142-2156.	4.8	249
60	A Molecular Dynamics Study of the Structural Dependence of Boron Oxide Nanoparticles on Shape. <i>Nano Letters</i> , 2005, 5, 363-368.	9.1	9
61	A molecular interpretation of vitreous boron oxide dynamics. <i>Journal of Chemical Physics</i> , 2004, 121, 8562.	3.0	5