

Tricia Breen Carmichael

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

51
papers

2,706
citations

26
h-index

52
g-index

53
ext. papers

2,986
ext. citations

10
avg, IF

5.02
L-index

#	Paper	IF	Citations
51	The 2021 flexible and printed electronics roadmap. <i>Flexible and Printed Electronics</i> , 2022 , 6, 023001	3.1	33
50	Flexible and printed electronics: a transition in leadership reflecting on our successes and looking forward to the future. <i>Flexible and Printed Electronics</i> , 2022 , 7, 010401	3.1	
49	Wearable E-Textiles Using a Textile-Centric Design Approach. <i>Accounts of Chemical Research</i> , 2021 , 54, 4051-4064	24.3	7
48	25 Years of Light-Emitting Electrochemical Cells: A Flexible and Stretchable Perspective. <i>Advanced Materials</i> , 2021 , 33, e2006863	24	18
47	Conducting materials as building blocks for electronic textiles. <i>MRS Bulletin</i> , 2021 , 46, 491-501	3.2	6
46	Ready-to-wear strain sensing gloves for human motion sensing. <i>IScience</i> , 2021 , 24, 102525	6.1	3
45	Protocol for fabricating electroless nickel immersion gold strain sensors on nitrile butadiene rubber gloves for wearable electronics. <i>STAR Protocols</i> , 2021 , 2, 100832	1.4	0
44	Velour Fabric as an Island-Bridge Architectural Design for Stretchable Textile-Based Lithium-ion Battery Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51679-51687	9.5	8
43	Stretchable Ultrasheer Fabrics as Semitransparent Electrodes for Wearable Light-Emitting e-Textiles with Changeable Display Patterns. <i>Matter</i> , 2020 , 2, 882-895	12.7	29
42	Heterogeneous Surface Orientation of Solution-Deposited Gold Films Enables Retention of Conductivity with High Strain: A New Strategy for Stretchable Electronics. <i>Chemistry of Materials</i> , 2019 , 31, 1920-1927	9.6	12
41	Patterned, Flexible, and Stretchable Silver Nanowire/Polymer Composite Films as Transparent Conductive Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31210-31219	9.5	48
40	A comparative analysis of capacitive-based flexible PDMS pressure sensors. <i>Sensors and Actuators A: Physical</i> , 2019 , 285, 427-436	3.9	35
39	Solution Deposition of Conformal Gold Coatings on Knitted Fabric for E-Textiles and Electroluminescent Clothing. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700292	6.8	35
38	Membrane-Interface-Elastomer Structures for Stretchable Electronics. <i>Chem</i> , 2018 , 4, 1673-1684	16.2	11
37	Stretchable metal films. <i>Flexible and Printed Electronics</i> , 2018 , 3, 043001	3.1	10
36	Reinventing Butyl Rubber for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2016 , 26, 5222-5229	15.6	20
35	Elastomers: Reinventing Butyl Rubber for Stretchable Electronics (Adv. Funct. Mater. 29/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 5379-5379	15.6	

34	Transparent, stretchable, and conductive SWNT films using supramolecular functionalization and layer-by-layer self-assembly. <i>RSC Advances</i> , 2016 , 6, 29254-29263	3.7	14
33	Developing the Surface Chemistry of Transparent Butyl Rubber for Impermeable Stretchable Electronics. <i>Langmuir</i> , 2016 , 32, 10206-10212	4	10
32	A Self-Assembled, Low-Cost, Microstructured Layer for Extremely Stretchable Gold Films. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20745-52	9.5	31
31	Odd-even effects in charge transport across n-alkanethiolate-based SAMs. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16919-25	16.4	80
30	The unusual self-organization of dialkyldithiophosphinic acid self-assembled monolayers on ultrasmooth gold. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4212-22	16.4	5
29	Ultrasmooth gold surfaces prepared by chemical mechanical polishing for applications in nanoscience. <i>Langmuir</i> , 2014 , 30, 14171-8	4	20
28	Silver nanowire/optical adhesive coatings as transparent electrodes for flexible electronics. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10165-72	9.5	127
27	New dihexadecyldithiophosphate SAMs on gold provide insight into the unusual dependence of adsorbate chelation on substrate morphology in SAMs of dialkyldithiophosphinic acids. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15784-93	16.4	4
26	Formation of self-assembled monolayers with homogeneously mixed, loosely packed alkyl groups using unsymmetrical dialkyldithiophosphinic acids. <i>Langmuir</i> , 2012 , 28, 17701-8	4	7
25	Influence of alkyl chain length on the structure of dialkyldithiophosphinic acid self-assembled monolayers on gold. <i>Langmuir</i> , 2012 , 28, 13253-60	4	5
24	Stretchable light-emitting electrochemical cells using an elastomeric emissive material. <i>Advanced Materials</i> , 2012 , 24, 2673-8	24	115
23	New dialkyldithiophosphinic acid self-assembled monolayers (SAMs): influence of gold substrate morphology on adsorbate binding and SAM structure. <i>Langmuir</i> , 2011 , 27, 10019-26	4	13
22	Selectively metallized polymeric substrates by microcontact printing an aluminum(III) porphyrin complex. <i>Journal of the American Chemical Society</i> , 2010 , 132, 765-72	16.4	24
21	Templated self-assembly of glass microspheres into ordered two-dimensional arrays under dry conditions. <i>Langmuir</i> , 2010 , 26, 5286-90	4	8
20	Fabrication of Elastomeric Wires by Selective Electroless Metallization of Poly(dimethylsiloxane). <i>Advanced Materials</i> , 2008 , 20, 59-64	24	32
19	Selective electroless metal deposition using microcontact printing of phosphine-phosphonic acid inks. <i>Langmuir</i> , 2004 , 20, 5593-8	4	26
18	An Efficient Synthesis of Symmetrical Oligothiophenes: Synthesis and Transport Properties of a Soluble Sexithiophene Derivative. <i>Chemistry of Materials</i> , 2002 , 14, 1742-1746	9.6	45
17	High-performance, solution-processed organic thin film transistors from a novel pentacene precursor. <i>Journal of the American Chemical Society</i> , 2002 , 124, 8812-3	16.4	409

16	Patterning Indium Tin Oxide and Indium Zinc Oxide Using Microcontact Printing and Wet Etching. <i>Langmuir</i> , 2002 , 18, 194-197	4	79
15	Patterning organic/inorganic thin-film transistors using microcontact printed templates. <i>Applied Physics Letters</i> , 2001 , 79, 3536-3538	3-4	83
14	Forming electrical networks in three dimensions by self-assembly. <i>Science</i> , 2000 , 289, 1170-2	33-3	413
13	Design and self-assembly of open, regular, 3D mesostructures. <i>Science</i> , 1999 , 284, 948-51	33-3	250
12	Crystallization of Millimeter-Scale Objects with Use of Capillary Forces. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12670-12671	16.4	65
11	Maskless photolithography: Embossed photoresist as its own optical element. <i>Applied Physics Letters</i> , 1998 , 73, 2893-2895	3-4	49
10	Metallacycle Transfer Routes to Main-Group Phosphacycles. <i>Organometallics</i> , 1997 , 16, 365-369	3.8	46
9	Synthesis and Reactivity of Phosphametallacyclobutenes: Sterically Induced [4 + 2] Retrocycloadditions. <i>Journal of the American Chemical Society</i> , 1996 , 118, 4204-4205	16.4	33
8	Synthesis and Reactivity of Phosphametallacycles: Sterically Induced Epimerizations and Retrocycloadditions. <i>Organometallics</i> , 1996 , 15, 5729-5737	3.8	22
7	Reactivity Studies of Methylzirconocene Phosphide Complexes. <i>Organometallics</i> , 1996 , 15, 4509-4514	3.8	29
6	Phosphinidene Transfer Reactions of the Terminal Phosphinidene Complex Cp ₂ Zr(=PC ₆ H ₅ -2,4,6-t-Bu ₃)(PMe ₃). <i>Journal of the American Chemical Society</i> , 1995 , 117, 11914-11921	16.4	148
5	Propargyl Chlorides as Sources for Cobalt Stabilized γ -Carbonyl Cations. <i>Journal of Organic Chemistry</i> , 1995 , 60, 7496-7502	4.2	20
4	Early Metal Mediated P-P Bond Formation in Cp ₂ M((PR) ₂) and Cp ₂ M((PR) ₃) Complexes. <i>Inorganic Chemistry</i> , 1994 , 33, 865-870	5.1	29
3	Formation and reactivity of the early metal phosphides and phosphinidenes Cp [*] 2Zr:PR, Cp [*] 2Zr(PR) ₂ , and Cp [*] 2Zr(PR) ₃ . <i>Organometallics</i> , 1993 , 12, 3158-3167	3.8	148
2	Substitution or nucleophilic attack by phosphines on tetrachlorobis(tetrahydrofuran)zirconium. <i>Inorganic Chemistry</i> , 1992 , 31, 4019-4022	5.1	40
1	From Chlorinated Solvents to Branched Polyethylene: Solvent-Induced Phase Separation for the Greener Processing of Semiconducting Polymers. <i>Advanced Electronic Materials</i> , 2100928	6.4	1