

Paul A Kohl

List of Publications by Year in descending order

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225
papers

8,001
citations

70961

41
h-index

60497

81
g-index

228
all docs

228
docs citations

228
times ranked

6876
citing authors

#	ARTICLE	IF	CITATIONS
1	Anion-exchange membranes in electrochemical energy systems. <i>Energy and Environmental Science</i> , 2014, 7, 3135-3191.	15.6	1,617
2	Novel polymer-ceramic nanocomposite based on high dielectric constant epoxy formula for embedded capacitor application. <i>Journal of Applied Polymer Science</i> , 2002, 83, 1084-1090.	1.3	323
3	Anionic polysulfone ionomers and membranes containing fluorenyl groups for anionic fuel cells. <i>Journal of Power Sources</i> , 2009, 190, 285-292.	4.0	230
4	Achieving High Performance and 2000 h Stability in Anion Exchange Membrane Fuel Cells by Manipulating Ionomer Properties and Electrode Optimization. <i>Advanced Energy Materials</i> , 2020, 10, 2001986.	10.2	188
5	Composite Poly(norbornene) Anion Conducting Membranes for Achieving Durability, Water Management and High Power (3.4 ÅW/cm ²) in Hydrogen/Oxygen Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, F637-F644.	1.3	172
6	The Electrochemical Oxidation of Silicon and Formation of Porous Silicon in Acetonitrile. <i>Journal of the Electrochemical Society</i> , 1994, 141, 1006-1013.	1.3	159
7	Hybrid Anion and Proton Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11416-11423.	1.5	147
8	Functionalized polynorbornene dielectric polymers: Adhesion and mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 3003-3010.	2.4	139
9	The Importance of Water Transport in High Conductivity and High-Power Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 054501.	1.3	132
10	Thermodynamic analysis of an absorption refrigeration system with ionic-liquid/refrigerant mixture as a working fluid. <i>Energy</i> , 2012, 44, 1005-1016.	4.5	128
11	Anionic multiblock copolymer membrane based on vinyl addition polymerization of norbornenes: Applications in anion-exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2019, 570-571, 394-402.	4.1	119
12	Highly Conductive Anion-Exchange Membranes Based on Cross-Linked Poly(norbornene): Vinyl Addition Polymerization. <i>ACS Applied Energy Materials</i> , 2019, 2, 2447-2457.	2.5	117
13	Crosslinked, epoxy-based anion conductive membranes for alkaline membrane fuel cells. <i>Journal of Membrane Science</i> , 2010, 350, 286-292.	4.1	113
14	Highly Conducting Anion-Exchange Membranes Based on Cross-Linked Poly(norbornene): Ring Opening Metathesis Polymerization. <i>ACS Applied Energy Materials</i> , 2019, 2, 2458-2468.	2.5	109
15	Low Dielectric Constant Insulators for Future Integrated Circuits and Packages. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011, 2, 379-401.	3.3	107
16	Poly(norbornene) anion conductive membranes: homopolymer, block copolymer and random copolymer properties and performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17568-17578.	5.2	105
17	Electrical conductivity, ionic conductivity, optical absorption, and gas separation properties of ionically conductive polymer membranes embedded with Si microwire arrays. <i>Energy and Environmental Science</i> , 2011, 4, 1772.	15.6	103
18	Plasma-Enhanced Chemical Vapor Deposition of Silicon Dioxide Deposited at Low Temperatures. <i>Journal of the Electrochemical Society</i> , 1995, 142, 2067-2071.	1.3	101

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19	Sacrificial polymers for nanofluidic channels in biological applications. <i>Nanotechnology</i> , 2003, 14, 578-583.	1.3	98
20	Silicon nanowire anode: Improved battery life with capacity-limited cycling. <i>Journal of Power Sources</i> , 2012, 205, 433-438.	4.0	93
21	Fabrication of microchannels using polycarbonates as sacrificial materials. <i>Journal of Micromechanics and Microengineering</i> , 2001, 11, 733-737.	1.5	85
22	Liquid-phase exfoliation of graphene in organic solvents with addition of naphthalene. <i>Journal of Colloid and Interface Science</i> , 2014, 418, 37-42.	5.0	76
23	Anion conducting multiblock copolymer membranes with partial fluorination and long head-group tethers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16233-16244.	5.2	69
24	Plasma chemistry in fluorocarbon film deposition from pentafluoroethane/argon mixtures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999, 17, 3265-3271.	0.9	65
25	Analysis of [hmim][PF6] and [hmim][Tf2N] ionic liquids as absorbents for an absorption refrigeration system. <i>International Journal of Refrigeration</i> , 2014, 48, 105-113.	1.8	65
26	Thermal decomposition of poly(propylene carbonate): End-capping, additives, and solvent effects. <i>Polymer Degradation and Stability</i> , 2016, 125, 129-139.	2.7	64
27	Performance Simulation of Ionic Liquid and Hydrofluorocarbon Working Fluids for an Absorption Refrigeration System. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 6329-6335.	1.8	60
28	Porous Methylsilsesquioxane for Low-k Dielectric Applications. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, F25.	2.2	59
29	Hybrid Polymer Electrolyte Fuel Cells: Alkaline Electrodes with Proton Conducting Membrane. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1299-1301.	7.2	59
30	Quaternary Ammonium Ionic Liquid Electrolyte for a Silicon Nanowire-Based Lithium Ion Battery. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22048-22053.	1.5	58
31	Wafer-level MEMS packaging via thermally released metal-organic membranes. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 742-750.	1.5	54
32	Electrochemical Study of the Gold Thiosulfate Reduction. <i>Journal of the Electrochemical Society</i> , 1997, 144, 1686-1690.	1.3	51
33	Analysis of Double Layer and Adsorption Effects at the Alkaline Polymer Electrolyte-Electrode Interface. <i>Journal of the Electrochemical Society</i> , 2011, 158, B1423.	1.3	51
34	Crosslinking and decomposition reactions of epoxide functionalized polynorbornene. Part I. FTIR and thermogravimetric analysis. <i>Journal of Applied Polymer Science</i> , 2003, 89, 568-577.	1.3	50
35	Development of a New Force Field for Polynorbornene. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9783-9790.	1.2	49
36	Anion conducting multiblock copolymers with multiple head-groups. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9000-9008.	5.2	49

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37	Absorption Heat Pump/Refrigeration System Utilizing Ionic Liquid and Hydrofluorocarbon Refrigerants. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2012, 134, .	1.2	48
38	The Autocatalytic Deposition of Gold in Nonalkaline, Gold Thiosulfate Electroless Bath. <i>Journal of the Electrochemical Society</i> , 1995, 142, 2250-2255.	1.3	46
39	Understanding Transport at the Acid-Alkaline Interface of Bipolar Membranes. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1572-F1587.	1.3	46
40	Chemically Bonded Porogens in Methylsilsequioxane. <i>Journal of the Electrochemical Society</i> , 2002, 149, F161.	1.3	45
41	MEMS Switched Tunable Inductors. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 78-84.	1.7	43
42	Temperature-dependent photoluminescence from chemically and thermally reduced graphene oxide. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	43
43	Stability of Sodium Electrodeposited from a Room Temperature Chloroaluminate Molten Salt. <i>Journal of the Electrochemical Society</i> , 1995, 142, 3636-3642.	1.3	40
44	Anion-Conductive Multiblock Aromatic Copolymer Membranes: Structure–Property Relationships. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15468-15477.	1.5	40
45	Ionomer Optimization for Water Uptake and Swelling in Anion Exchange Membrane Electrolyzer: Oxygen Evolution Electrode. <i>Journal of the Electrochemical Society</i> , 2020, 167, 164514.	1.3	40
46	Theoretical and Experimental Investigation of an Absorption Refrigeration System Using R134a/[bmim][PF ₆] Working Fluid. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13459-13465.	1.8	39
47	Air-Gaps for Electrical Interconnections. <i>Electrochemical and Solid-State Letters</i> , 1999, 1, 49.	2.2	38
48	Variable-frequency microwave curing of benzocyclobutene. <i>Journal of Applied Polymer Science</i> , 2002, 83, 3055-3067.	1.3	38
49	Decomposition of poly(propylene carbonate) with UV sensitive iodonium salts. <i>Polymer Degradation and Stability</i> , 2011, 96, 686-702.	2.7	38
50	Improved fabrication of micro air-channels by incorporation of a structural barrier. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 35-42.	1.5	35
51	All-Copper Chip-to-Substrate Interconnects Part I. Fabrication and Characterization. <i>Journal of the Electrochemical Society</i> , 2008, 155, D308.	1.3	35
52	Wafer-Level Packaging of Micromechanical Resonators. <i>IEEE Transactions on Advanced Packaging</i> , 2007, 30, 19-26.	1.7	34
53	PEM/AEM Junction Design for Bipolar Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1165-F1171.	1.3	33
54	Electrochemical Etching of Silicon in Nonaqueous Electrolytes Containing Hydrogen Fluoride or Fluoroborate. <i>Journal of the Electrochemical Society</i> , 1999, 146, 1960-1965.	1.3	32

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55	Stable, High-Molecular-Weight Poly(phthalaldehyde). <i>Journal of Polymer Science Part A</i> , 2017, 55, 1166-1172.	2.5	32
56	Influence of Water Transport Across Microscale Bipolar Interfaces on the Performance of Direct Borohydride Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 4449-4456.	2.5	32
57	Ionomer Optimization for Water Uptake and Swelling in Anion Exchange Membrane Electrolyzer: Hydrogen Evolution Electrode. <i>Journal of the Electrochemical Society</i> , 2021, 168, 024503.	1.3	31
58	MBE growth of high quality GaN on LiGaO ₂ . <i>Journal of Electronic Materials</i> , 1998, 27, L58-L60.	1.0	30
59	Airgap Interconnects: Modeling, Optimization, and Benchmarking for Backplane, PCB, and Interposer Applications. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014, 4, 1335-1346.	1.4	30
60	Effect of reacting gas flowrates and hydration on the carbonation of anion exchange membrane fuel cells in the presence of CO ₂ . <i>Journal of Power Sources</i> , 2020, 467, 228350.	4.0	30
61	Photoelectrochemical etching of semiconductors. <i>IBM Journal of Research and Development</i> , 1998, 42, 629-638.	3.2	29
62	Sol-gel based sulfonic acid-functionalized silica proton conductive membrane. <i>Journal of Power Sources</i> , 2009, 193, 562-569.	4.0	29
63	Electroless Deposition of Copper on Organic and Inorganic Substrates Using a Sn/Ag Catalyst. <i>Journal of the Electrochemical Society</i> , 2012, 159, D386-D392.	1.3	29
64	Fabrication of Microchannels Using Polynorbornene Photosensitive Sacrificial Materials. <i>Journal of the Electrochemical Society</i> , 2003, 150, H205.	1.3	28
65	Study of Alkaline Electrodes for Hybrid Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2010, 157, B1391.	1.3	28
66	Giant quasiparticle bandgap modulation in graphene nanoribbons supported on weakly interacting surfaces. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	28
67	Phosphorus-doped glass proton exchange membranes for low temperature direct methanol fuel cells. <i>Journal of Power Sources</i> , 2008, 175, 91-97.	4.0	27
68	Plating and Stripping of Sodium from a Room Temperature 1-Methyl-3-propylimidazolium Chloride Melt. <i>Journal of the Electrochemical Society</i> , 1996, 143, 3820-3824.	1.3	25
69	Phototriggered Depolymerization of Flexible Poly(phthalaldehyde) Substrates by Integrated Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28062-28068.	4.0	25
70	Improving alkaline ionomers. <i>Nature Energy</i> , 2020, 5, 359-360.	19.8	25
71	Iron, Copper, and Nickel Behavior in Buffered, Neutral Aluminum Chloride: 1-Methyl-3-ethylimidazolium Chloride Molten Salt. <i>Journal of the Electrochemical Society</i> , 1997, 144, 1933-1938.	1.3	24
72	Photosensitive polynorbornene based dielectric. I. Structure-property relationships. <i>Journal of Applied Polymer Science</i> , 2004, 91, 3023-3030.	1.3	24

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73	Polypropylene Carbonate-Based Adaptive Buffer Layer for Stable Interfaces of Solid Polymer Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2019, 11, 27906-27912.	4.0	24
74	KOH vs Deionized Water Operation in Anion Exchange Membrane Electrolyzers. Journal of the Electrochemical Society, 2022, 169, 044526.	1.3	24
75	Chemically Bonded Porogens in Methylsilsequioxane. Journal of the Electrochemical Society, 2002, 149, F171.	1.3	23
76	Air-Gap Transmission Lines on Organic Substrates for Low-Loss Interconnects. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1919-1925.	2.9	23
77	Solvent processible, high-performance partially fluorinated copoly(arylene ether) alkaline ionomers for alkaline electrodes. Journal of Power Sources, 2011, 196, 7924-7930.	4.0	23
78	Decomposable and Template Polymers: Fundamentals and Applications. Journal of Electronic Packaging, Transactions of the ASME, 2016, 138, .	1.2	22
79	Understanding and improving anode performance in an alkaline membrane electrolyzer using statistical design of experiments. Electrochimica Acta, 2022, 409, 140001.	2.6	22
80	High-Frequency Chip Connections. Science, 2008, 320, 756-757.	6.0	21
81	Solution-processed semitransparent p-n graphene oxide:ZnO heterojunction diodes for visible-blind UV sensors. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 943-946.	0.8	21
82	A combined photovoltaic and Li ion battery device for continuous energy harvesting and storage. Journal of Power Sources, 2012, 216, 84-88.	4.0	21
83	A Novel Electrolyte for the Sodium/Iron Chloride Battery. Journal of the Electrochemical Society, 1991, 138, 339-340.	1.3	20
84	Gallium arsenide passivation through nitridation with hydrazine. Journal of Applied Physics, 1993, 74, 6448-6450.	1.1	20
85	Comparison of plasma chemistries and structure-property relationships of fluorocarbon films deposited from octafluorocyclobutane and pentafluoroethane monomers. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 439.	1.6	20
86	Anion Conducting Ionomers for Fuel Cells and Electrolyzers. Journal of the Electrochemical Society, 2017, 164, F1648-F1653.	1.3	20
87	On the Correlation of Aqueous and Nonaqueous In Situ and Ex Situ Photoluminescent Emissions from Porous Silicon: Evidence for Surface-Bound Emitters. Journal of the Electrochemical Society, 1998, 145, 3284-3300.	1.3	19
88	Thermal Decomposition Kinetics of Functionalized Polynorbornene. Journal of Materials Research, 2002, 17, 632-640.	1.2	19
89	Adhesion Enhancement Between Electroless Copper and Epoxy-based Dielectrics. IEEE Transactions on Advanced Packaging, 2009, 32, 758-767.	1.7	19
90	Characterization of Anion Exchange Ionomers in Hybrid Polymer Electrolyte Fuel Cells. ChemSusChem, 2010, 3, 1398-1402.	3.6	19

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91	Poly(arylene ether) Ionomers with Pendant Quinuclidium Groups and Varying Molecular Weight for Alkaline Electrodes. <i>Journal of the Electrochemical Society</i> , 2013, 160, F573-F578.	1.3	19
92	Anion conducting multiblock copolymers with different tethered cations. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1395-1403.	2.5	19
93	Photoelectrochemical Etching of GaSb. <i>Journal of the Electrochemical Society</i> , 1993, 140, 3631-3635.	1.3	18
94	Photoluminescence in the Earliest Stages of Porous Silicon Formation. <i>Journal of the Electrochemical Society</i> , 1996, 143, L164-L166.	1.3	18
95	Candidate membranes for the electrochemical salt-splitting of Sodium Sulfate. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 777-783.	1.5	18
96	Determination of ceiling temperature and thermodynamic properties of low ceiling temperature polyaldehydes. <i>Journal of Polymer Science Part A</i> , 2018, 56, 221-228.	2.5	18
97	Multi-Physics Modeling and Characterization of Components on Flexible Substrates. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019, 9, 1730-1740.	1.4	18
98	Cationic Copolymerization of o-Phthalaldehyde and Functional Aliphatic Aldehydes. <i>Macromolecules</i> , 2019, 52, 4020-4029.	2.2	18
99	Polynorbornene for Low K Interconnection. <i>Materials Research Society Symposia Proceedings</i> , 1997, 476, 3.	0.1	17
100	Flexible pillars for displacement compensation in optical chip assembly. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 974-976.	1.3	17
101	Self Humidifying Hybrid Anion-Cation Membrane Fuel Cell Operated Under Dry Conditions. <i>Fuel Cells</i> , 2010, 10, 54-63.	1.5	17
102	Aqueous-Develop, Photosensitive Polynorbornene Dielectric: Properties and Characterization. <i>Journal of Electronic Materials</i> , 2009, 38, 778-786.	1.0	17
103	Polycarbonates as temporary adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2012, 38, 45-49.	1.4	17
104	Photoacid generators for catalytic decomposition of polycarbonate. <i>Journal of Applied Polymer Science</i> , 2007, 105, 2655-2662.	1.3	16
105	Fabrication, Characterization and Comparison of FR4-Compatible Composite Magnetic Materials for High Efficiency Integrated Voltage Regulators with Embedded Magnetic Core Micro-Inductors. , 2017, , .		16
106	Stereochemical structure-property relationships in polynorbornene from simulation. <i>Macromolecular Symposia</i> , 1998, 133, 1-10.	0.4	15
107	Dual capacitor technique for measurement of through-plane modulus of thin polymer films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 1634-1644.	2.4	15
108	Multilayer planarization of polymer dielectrics. <i>IEEE Transactions on Advanced Packaging</i> , 2001, 24, 41-53.	1.7	15

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109	High-Q Micromachined Silver Passives and Filters. , 2006, , .		15
110	The effect of hydrophobicity in alkaline electrodes for passive DMFC. <i>Electrochimica Acta</i> , 2011, 56, 3085-3090.	2.6	15
111	Packaging-compatible wafer level capping of MEMS devices. <i>Microelectronic Engineering</i> , 2013, 104, 75-84.	1.1	15
112	Size-Compatible, Polymer-Based Air-Gap Formation Processes, and Polymer Residue Analysis for Wafer-Level MEMS Packaging Applications. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2015, 137, .	1.2	15
113	Sunlight-Triggerable Transient Energy Harvester and Sensors Based on Triboelectric Nanogenerator Using Acid-Sensitive Poly(phthalaldehyde). <i>Advanced Electronic Materials</i> , 2019, 5, 1900725.	2.6	15
114	Luminescent characteristics of a novel porous silicon structure formed in a nonaqueous electrolyte. <i>Applied Physics Letters</i> , 1994, 64, 1914-1916.	1.5	14
115	Moisture absorption studies of fluorocarbon films deposited from pentafluoroethane and octafluorocyclobutane plasmas. <i>Journal of Electronic Materials</i> , 2002, 31, 1096-1103.	1.0	14
116	Improved gas diffusion electrodes for hybrid polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2011, 56, 4439-4444.	2.6	14
117	In situ measurement of the thermal expansion behavior of benzocyclobutene films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 311-321.	2.4	13
118	Lithographic Characteristics and Thermal Processing of Photosensitive Sacrificial Materials. <i>Journal of the Electrochemical Society</i> , 2002, 149, G555.	1.3	13
119	Design and Characterization of Inductors for Self-Powered IoT Edge Devices. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018, 8, 1263-1271.	1.4	13
120	Design Exploration of Package-Embedded Inductors for High-Efficiency Integrated Voltage Regulators. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019, 9, 96-106.	1.4	13
121	Difunctional block copolymer with ion solvating and crosslinking sites as solid polymer electrolyte for lithium batteries. <i>Journal of Power Sources</i> , 2021, 481, 228832.	4.0	13
122	Photosensitive polynorbornene based dielectric. II. Sensitivity and spatial resolution. <i>Journal of Applied Polymer Science</i> , 2004, 91, 3031-3039.	1.3	12
123	Air-Gaps for High-Performance On-Chip Interconnect Part II: Modeling, Fabrication, and Characterization. <i>Journal of Electronic Materials</i> , 2008, 37, 1534-1546.	1.0	12
124	Patterning decomposable polynorbornene with electron beam lithography to create nanochannels. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 2508.	1.3	12
125	Photodefinable Epoxycyclohexyl Polyhedral Oligomeric Silsesquioxane. <i>Journal of Electronic Materials</i> , 2010, 39, 149-156.	1.0	12
126	Sol-gel based silica electrodes for inorganic membrane direct methanol fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 2224-2229.	4.0	12

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127	Stabilization of the Thermal Decomposition of Poly(Propylene Carbonate) Through Copper Ion Incorporation and Use in Self-Patterning. <i>Journal of Electronic Materials</i> , 2011, 40, 1350-1363.	1.0	12
128	Domed and Released Thin-Film Constructed An Approach for Material Characterization and Compliant Interconnects. <i>IEEE Transactions on Device and Materials Reliability</i> , 2012, 12, 15-23.	1.5	12
129	Sunlight photodepolymerization of transient polymers. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47141.	1.3	12
130	Crosslinking and decomposition reactions of epoxide-functionalized polynorbornene. II. Impact of reactions on mechanical properties. <i>Journal of Applied Polymer Science</i> , 2004, 91, 1020-1029.	1.3	11
131	Air-Gaps for High-Performance On-Chip Interconnect Part I: Improvement in Thermally Decomposable Template. <i>Journal of Electronic Materials</i> , 2008, 37, 1524-1533.	1.0	11
132	Carbon dioxide vent for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2008, 185, 392-400.	4.0	11
133	Electroless Deposition and Characterization of Pt _x Ru _{1-x} Catalysts on Pt/C Nanoparticles for Methanol Oxidation. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	11
134	Modeling and design of system-in-package integrated voltage regulator with thermal effects. , 2016, , .		11
135	Tunable transient and mechanical properties of photodegradable Poly(phthalaldehyde). <i>Polymer</i> , 2019, 176, 206-212.	1.8	11
136	Optimal design and dispatch of a hybrid microgrid system capturing battery fade. <i>Optimization and Engineering</i> , 2019, 20, 179-213.	1.3	11
137	Self-adhesive ionomers for durable low-temperature anion exchange membrane electrolysis. <i>Journal of Power Sources</i> , 2022, 536, 231495.	4.0	11
138	Hydrophobic/hydrophilic surface modification within buried air channels. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 953.	1.6	10
139	Crosslinking of aqueous base-developable, photosensitive polynorbornene. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1916-1925.	1.3	10
140	Fabrication, characterization and comparison of composite magnetic materials for high efficiency integrated voltage regulators with embedded magnetic core micro-inductors. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 455001.	1.3	10
141	Fabrication of package embedded spiral inductors with two magnetic layers for flexible SIP point of load converters in Internet of Everything devices. <i>Microelectronic Engineering</i> , 2018, 189, 18-27.	1.1	10
142	High Conductivity, Lithium Ion Conducting Polymer Electrolyte Based on Hydrocarbon Backbone with Pendent Carbonate. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100517.	1.3	10
143	Understanding Recoverable vs Unrecoverable Voltage Losses and Long-Term Degradation Mechanisms in Anion Exchange Membrane Fuel Cells. <i>ACS Catalysis</i> , 2022, 12, 8116-8126.	5.5	10
144	Plating and Stripping of Sodium from a Room Temperature 1,2-Dimethyl-3-propylimidazolium Chloride Melt. <i>Journal of the Electrochemical Society</i> , 1996, 143, 2262-2266.	1.3	9

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145	Low-K Porous Spin-On-Glass. Materials Research Society Symposia Proceedings, 1999, 565, 55.	0.1	9
146	Novel high dielectric constant nano-structure polymer-ceramic composite for embedded capacitor application. , 0, , .		9
147	Photoinitiation systems and thermal decomposition of photodefinable sacrificial materials. Journal of Applied Polymer Science, 2003, 88, 1186-1195.	1.3	9
148	Platinum-Glass Composite Electrode for Fuel Cell Applications. Electrochemical and Solid-State Letters, 2007, 10, B210.	2.2	9
149	Cationic polymerization of high-molecular-weight phthalaldehyde-butanal copolymer. Journal of Applied Polymer Science, 2019, 136, 46921.	1.3	9
150	Editors' Choice Power-Generating Electrochemical CO ₂ Scrubbing from Air Enabling Practical AEMFC Application. Journal of the Electrochemical Society, 2021, 168, 024504.	1.3	9
151	The Photoelectrochemical Oxidation of n-Si in Anhydrous HF-Acetonitrile. Journal of the Electrochemical Society, 1993, 140, L78-L80.	1.3	8
152	Reactive Ion Etching of Silicon Containing Polynorbornenes. Journal of the Electrochemical Society, 1998, 145, 1257-1262.	1.3	8
153	UV-induced porosity using photogenerated acids to catalyze the decomposition of sacrificial polymers templated in dielectric films. Journal of Materials Chemistry, 2007, 17, 873-885.	6.7	8
154	Highly conductive polymers: superconductivity in nanochannels or an experimental artifact?. Journal of Nanoparticle Research, 2010, 12, 2335-2347.	0.8	8
155	Thermal-Mechanical Stress Modeling of Copper Chip-to-Substrate Pillar Connections. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 621-628.	1.4	8
156	Photodegradable transient bilayered poly(phthalaldehyde) with improved shelf life. Polymers for Advanced Technologies, 2019, 30, 1198-1204.	1.6	8
157	Magnetic Core Solenoid Power Inductors on Organic Substrate for System-in-Package Integrated High-Frequency Voltage Regulators. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2682-2695.	3.7	8
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