

Paul A Kohl

List of Publications by Year in descending order

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228
all docs

228
docs citations

228
times ranked

6876
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding and improving anode performance in an alkaline membrane electrolyzer using statistical design of experiments. <i>Electrochimica Acta</i> , 2022, 409, 140001.	5.2	22
2	KOH vs Deionized Water Operation in Anion Exchange Membrane Electrolyzers. <i>Journal of the Electrochemical Society</i> , 2022, 169, 044526.	2.9	24
3	Self-adhesive ionomers for durable low-temperature anion exchange membrane electrolysis. <i>Journal of Power Sources</i> , 2022, 536, 231495.	7.8	11
4	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.	11.2	10
5	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.	7.8	13
6	Lithium Ion Conduction in Diblock Polymer Electrolyte with Tethered Anion. <i>ChemistrySelect</i> , 2021, 6, 595-599.	1.5	3
7	Residue analysis of thermally depolymerized <sc>phthalaldehyde</sc>-based</sc> polymer thin films. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2142-2150.	3.2	2
8	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.	2.9	31
9	Editors' Choice™ Power-Generating Electrochemical CO ₂ Scrubbing from Air Enabling Practical AEMFC Application. <i>Journal of the Electrochemical Society</i> , 2021, 168, 024504.	2.9	9
10	Design and Characterization of Package-Embedded Solenoidal Magnetic Core Inductors for High-Frequency and High-Efficiency SIP Integrated Voltage Regulators. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2021, 11, 625-634.	2.5	0
11	Magnetic Core Solenoid Power Inductors on Organic Substrate for System-in-Package Integrated High-Frequency Voltage Regulators. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020, 8, 2682-2695.	5.4	8
12	The Importance of Water Transport in High Conductivity and High-Power Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 054501.	2.9	132
13	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.	10.3	105
14	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.	19.5	188
15	Influence of material and process parameters in the dry-development of positive-tone, polyaldehyde photoresist. <i>Journal of Materials Research</i> , 2020, 35, 2917-2924.	2.6	3
16	Improving alkaline ionomers. <i>Nature Energy</i> , 2020, 5, 359-360.	39.5	25
17	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.	7.8	30
18	High Conductivity, Lithium Ion Conducting Polymer Electrolyte Based on Hydrocarbon Backbone with Pendant Carbonate. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100517.	2.9	10

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19	Improvement in the transience and mechanical performance of flexible Poly(phthalaldehyde) substrates. <i>Polymer</i> , 2020, 202, 122588.	3.8	2
20	Kinetic Investigation on the Cationic Polymerization of <i>o</i> -Phthalaldehyde: Understanding Ring-Expansion Polymerization. <i>Macromolecules</i> , 2020, 53, 1543-1549.	4.8	8
21	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.	5.1	32
22	Low-Dielectric Constant Nanoporous Epoxy for Electronic Packaging. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2020, 142, .	1.8	4
23	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.	2.9	40
24	Multi-Physics Modeling and Characterization of Components on Flexible Substrates. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019, 9, 1730-1740.	2.5	18
25	Polypropylene Carbonate-Based Adaptive Buffer Layer for Stable Interfaces of Solid Polymer Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27906-27912.	8.0	24
26	Sunlight-Triggerable Transient Energy Harvester and Sensors Based on Triboelectric Nanogenerator Using Acid-Sensitive Poly(phthalaldehyde). <i>Advanced Electronic Materials</i> , 2019, 5, 1900725.	5.1	15
27	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.	2.5	13
28	Composite Poly(norbornene) Anion Conducting Membranes for Achieving Durability, Water Management and High Power (3.4 W/cm^2) in Hydrogen/Oxygen Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, F637-F644.	2.9	172
29	Cationic Copolymerization of <i>o</i> -Phthalaldehyde and Functional Aliphatic Aldehydes. <i>Macromolecules</i> , 2019, 52, 4020-4029.	4.8	18
30	Tunable transient and mechanical properties of photodegradable Poly(phthalaldehyde). <i>Polymer</i> , 2019, 176, 206-212.	3.8	11
31	Highly Conductive Anion-Exchange Membranes Based on Cross-Linked Poly(norbornene): Vinyl Addition Polymerization. <i>ACS Applied Energy Materials</i> , 2019, 2, 2447-2457.	5.1	117
32	Design, Fabrication, and Characterization of Package Embedded Solenoidal Magnetic Core Inductors for High-Efficiency System-In-Package Integrated Voltage Regulators. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-7.	2.1	6
33	Time-delayed photo-induced depolymerization of poly(phthalaldehyde) self-immolative polymer via in situ formation of weak conjugate acid. <i>Polymers for Advanced Technologies</i> , 2019, 30, 1656-1662.	3.2	6
34	Photodegradable transient bilayered poly(phthalaldehyde) with improved shelf life. <i>Polymers for Advanced Technologies</i> , 2019, 30, 1198-1204.	3.2	8
35	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.	5.1	109
36	Cationic polymerization of high-molecular-weight phthalaldehyde-Butanal copolymer. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46921.	2.6	9

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37	Optimal design and dispatch of a hybrid microgrid system capturing battery fade. Optimization and Engineering, 2019, 20, 179-213.	2.4	11
38	Anionic multiblock copolymer membrane based on vinyl addition polymerization of norbornenes: Applications in anion-exchange membrane fuel cells. Journal of Membrane Science, 2019, 570-571, 394-402.	8.2	119
39	Sunlight photodepolymerization of transient polymers. Journal of Applied Polymer Science, 2019, 136, 47141.	2.6	12
40	Design and Characterization of Inductors for Self-Powered IoT Edge Devices. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1263-1271.	2.5	13
41	Anion conducting multiblock copolymers with different tethered cations. Journal of Polymer Science Part A, 2018, 56, 1395-1403.	2.3	19
42	Coordinating microgrid procurement decisions with a dispatch strategy featuring a concentration gradient. Applied Energy, 2018, 219, 394-407.	10.1	6
43	Fabrication of package embedded spiral inductors with two magnetic layers for flexible SIP point of load converters in Internet of Everything devices. Microelectronic Engineering, 2018, 189, 18-27.	2.4	10
44	Anion conducting multiblock copolymers with multiple head-groups. Journal of Materials Chemistry A, 2018, 6, 9000-9008.	10.3	49
45	Determination of ceiling temperature and thermodynamic properties of low ceiling temperature polyaldehydes. Journal of Polymer Science Part A, 2018, 56, 221-228.	2.3	18
46	Multi-physics Modeling Characterization of Aerosol Jet Printed Transmission Lines. , 2018, , .		4
47	Phototriggered Depolymerization of Flexible Poly(phthalaldehyde) Substrates by Integrated Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 28062-28068.	8.0	25
48	Porous Epoxy Film for Low Dielectric Constant Chip Substrates and Boards. , 2018, , .		2
49	Stable, Highâ€Molecularâ€Weight Poly(phthalaldehyde). Journal of Polymer Science Part A, 2017, 55, 1166-1172.	2.3	32
50	Platinum Supported on Functionalized Carbon Nanotubes for Oxygen Reduction Reaction in PEM/AEM Hybrid Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F217-F223.	2.9	7
51	Fabrication of precision integrated capacitors. Thin Solid Films, 2017, 634, 15-23.	1.8	3
52	Grafted Epoxide Functionalized Polypropylene Carbonate Porogen for Low Dielectric Constant Epoxy Films. ECS Journal of Solid State Science and Technology, 2017, 6, N163-N170.	1.8	5
53	Fabrication, characterization and comparison of composite magnetic materials for high efficiency integrated voltage regulators with embedded magnetic core micro-inductors. Journal Physics D: Applied Physics, 2017, 50, 455001.	2.8	10
54	PEM/AEM Junction Design for Bipolar Membrane Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F1165-F1171.	2.9	33

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55	Phototriggerable Transient Electronics: Materials and Concepts. , 2017, , .		3
56	Phototriggerable, Fully Transient Electronics: Component and Device Fabrication. , 2017, , .		1
57	Fabrication, Characterization and Comparison of FR4-Compatible Composite Magnetic Materials for High Efficiency Integrated Voltage Regulators with Embedded Magnetic Core Micro-Inductors. , 2017, , .		16
58	Anion Conducting Ionomers for Fuel Cells and Electrolyzers. Journal of the Electrochemical Society, 2017, 164, F1648-F1653.	2.9	20
59	Decomposable and Template Polymers: Fundamentals and Applications. Journal of Electronic Packaging, Transactions of the ASME, 2016, 138, .	1.8	22
60	Understanding Transport at the Acid-Alkaline Interface of Bipolar Membranes. Journal of the Electrochemical Society, 2016, 163, F1572-F1587.	2.9	46
61	Modeling and design of system-in-package integrated voltage regulator with thermal effects. , 2016, , .		11
62	Anion conducting multiblock copolymer membranes with partial fluorination and long head-group tethers. Journal of Materials Chemistry A, 2016, 4, 16233-16244.	10.3	69
63	High aspect ratio patterning of photosensitive polyimide with low thermal expansion coefficient and low dielectric constant. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 033503.	0.9	5
64	A physics-based integer-linear battery modeling paradigm. Applied Energy, 2016, 176, 245-257.	10.1	5
65	Thermal decomposition of poly(propylene carbonate): End-capping, additives, and solvent effects. Polymer Degradation and Stability, 2016, 125, 129-139.	5.8	64
66	Directly patternable benzocyclobutene and methacrylate silsesquioxanes for microelectronics packaging. Journal of the Ceramic Society of Japan, 2015, 123, 800-804.	1.1	2
67	Positive Tone, Polynorbornene Dielectric Crosslinking. ECS Journal of Solid State Science and Technology, 2015, 4, N3008-N3014.	1.8	0
68	Size-Compatible, Polymer-Based Air-Gap Formation Processes, and Polymer Residue Analysis for Wafer-Level MEMS Packaging Applications. Journal of Electronic Packaging, Transactions of the ASME, 2015, 137, .	1.8	15
69	Chemically Amplified, Positive Tone, Polynorbornene Dielectric for Microelectronics Packaging. ECS Journal of Solid State Science and Technology, 2015, 4, N3001-N3007.	1.8	4
70	Improved Mechanical Properties of Chemically Amplified, Positive Tone, Polynorbornene Dielectric. ECS Journal of Solid State Science and Technology, 2015, 4, N6-N12.	1.8	1
71	Positive Tone, Low-k Polynorbornene Dielectric Crosslinking. ECS Transactions, 2014, 61, 243-251.	0.5	0
72	Polymers for microelectronics. Journal of Applied Polymer Science, 2014, 131, .	2.6	5

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73	Liquid-phase exfoliation of graphene in organic solvents with addition of naphthalene. Journal of Colloid and Interface Science, 2014, 418, 37-42.	9.4	76
74	Analysis of [hmim][PF ₆] and [hmim][Tf ₂ N] ionic liquids as absorbents for an absorption refrigeration system. International Journal of Refrigeration, 2014, 48, 105-113.	3.4	65
75	Airgap Interconnects: Modeling, Optimization, and Benchmarking for Backplane, PCB, and Interposer Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1335-1346.	2.5	30
76	Anion-exchange membranes in electrochemical energy systems. Energy and Environmental Science, 2014, 7, 3135-3191.	30.8	1,617
77	High-contrast, high-sensitivity aqueous base-developable polynorbornene dielectric. Journal of Applied Polymer Science, 2013, 127, 4366-4373.	2.6	5
78	Positive-tone, aqueous-developable, polynorbornene dielectric: Lithographic, and dissolution properties. Journal of Applied Polymer Science, 2013, 127, 4653-4661.	2.6	7
79	Theoretical and Experimental Investigation of an Absorption Refrigeration System Using R134a/[bmim][PF ₆] Working Fluid. Industrial & Engineering Chemistry Research, 2013, 52, 13459-13465.	3.7	39
80	Poly(arylene ether) Ionomers with Pendant Quinuclidium Groups and Varying Molecular Weight for Alkaline Electrodes. Journal of the Electrochemical Society, 2013, 160, F573-F578.	2.9	19
81	Giant quasiparticle bandgap modulation in graphene nanoribbons supported on weakly interacting surfaces. Applied Physics Letters, 2013, 103, .	3.3	28
82	Packaging-compatible wafer level capping of MEMS devices. Microelectronic Engineering, 2013, 104, 75-84.	2.4	15
83	Anion-Conductive Multiblock Aromatic Copolymer Membranes: Structure-Property Relationships. Journal of Physical Chemistry C, 2013, 117, 15468-15477.	3.1	40
84	Performance Simulation of Ionic Liquid and Hydrofluorocarbon Working Fluids for an Absorption Refrigeration System. Industrial & Engineering Chemistry Research, 2013, 52, 6329-6335.	3.7	60
85	Chemically amplified, positive tone, cross-linkable thick-film polymer. Journal of Applied Polymer Science, 2013, 130, 759-765.	2.6	1
86	Electroless Deposition of Copper on Organic and Inorganic Substrates Using a Sn/Ag Catalyst. Journal of the Electrochemical Society, 2012, 159, D386-D392.	2.9	29
87	Domed and Released Thin-Film Constructed An Approach for Material Characterization and Compliant Interconnects. IEEE Transactions on Device and Materials Reliability, 2012, 12, 15-23.	2.0	12
88	Absorption Heat Pump/Refrigeration System Utilizing Ionic Liquid and Hydrofluorocarbon Refrigerants. Journal of Electronic Packaging, Transactions of the ASME, 2012, 134, .	1.8	48
89	Affect of Anneal Temperature on All-Copper Flip-Chip Connections Formed via Electroless Copper Deposition. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 79-84.	2.5	7
90	Air Cavity Transmission Lines for Off-Chip Interconnects Characterized to 40 GHz. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 367-374.	2.5	5

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91	Variable-Frequency Microwave Curing of Photosensitive Polynorbornene Dielectric. ECS Journal of Solid State Science and Technology, 2012, 1, N6-N13.	1.8	1
92	A combined photovoltaic and Li ion battery device for continuous energy harvesting and storage. Journal of Power Sources, 2012, 216, 84-88.	7.8	21
93	Thermodynamic analysis of an absorption refrigeration system with ionic-liquid/refrigerant mixture as a working fluid. Energy, 2012, 44, 1005-1016.	8.8	128
94	Thermal and photocatalytic stability enhancement mechanism of poly(propylene carbonate) due to Cu(I) impurities. Polymer Degradation and Stability, 2012, 97, 1829-1837.	5.8	6
95	Electron-Beam Sensitivity and Patterning of an Aqueous-Develop, Epoxy-Based Polynorbornene Dielectric Material. Journal of Electronic Materials, 2012, 41, 1982-1989.	2.2	1
96	Polycarbonates as temporary adhesives. International Journal of Adhesion and Adhesives, 2012, 38, 45-49.	2.9	17
97	Silicon nanowire anode: Improved battery life with capacity-limited cycling. Journal of Power Sources, 2012, 205, 433-438.	7.8	93
98	Enhanced photo-patterning of polymer dielectrics via imprint lithography. Microelectronic Engineering, 2012, 93, 19-26.	2.4	3
99	Temperature-dependent photoluminescence from chemically and thermally reduced graphene oxide. Applied Physics Letters, 2011, 99, .	3.3	43
100	Electrical conductivity, ionic conductivity, optical absorption, and gas separation properties of ionically conductive polymer membranes embedded with Si microwire arrays. Energy and Environmental Science, 2011, 4, 1772.	30.8	103
101	Quaternary Ammonium Ionic Liquid Electrolyte for a Silicon Nanowire-Based Lithium Ion Battery. Journal of Physical Chemistry C, 2011, 115, 22048-22053.	3.1	58
102	Air cavity low-loss transmission lines for high speed serial link applications. , 2011, , .		4
103	Analysis of Double Layer and Adsorption Effects at the Alkaline Polymer Electrolyte-Electrode Interface. Journal of the Electrochemical Society, 2011, 158, B1423.	2.9	51
104	Low- ϵ Dielectric Constant Insulators for Future Integrated Circuits and Packages. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 379-401.	6.8	107
105	Modeling Simplification for Thermal Mechanical Analysis of High Density Chip-to-Substrate Connections. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.8	5
106	Photosensitive sacrificial polymer with low residue. Microelectronic Engineering, 2011, 88, 3087-3093.	2.4	4
107	Solvent processible, high-performance partially fluorinated copoly(arylene ether) alkaline ionomers for alkaline electrodes. Journal of Power Sources, 2011, 196, 7924-7930.	7.8	23
108	Stabilization of the Thermal Decomposition of Poly(Propylene Carbonate) Through Copper Ion Incorporation and Use in Self-Patterning. Journal of Electronic Materials, 2011, 40, 1350-1363.	2.2	12

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109	Aqueous-Develop, Photosensitive Polynorbornene Dielectric: Optimization of Mechanical and Electrical Properties. Journal of Electronic Materials, 2011, 40, 2126-2138.	2.2	7
110	Solution-processed semitransparent p-n graphene oxide: CNT/ZnO heterojunction diodes for visible-blind UV sensors. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 943-946.	1.8	21
111	Crosslinking of aqueous base-developable, photosensitive polynorbornene. Journal of Applied Polymer Science, 2011, 120, 1916-1925.	2.6	10
112	The effect of hydrophobicity in alkaline electrodes for passive DMFC. Electrochimica Acta, 2011, 56, 3085-3090.	5.2	15
113	Improved gas diffusion electrodes for hybrid polymer electrolyte fuel cells. Electrochimica Acta, 2011, 56, 4439-4444.	5.2	14
114	Imprint lithography enabling ultra-low loss coaxial interconnects. Microelectronic Engineering, 2011, 88, 240-246.	2.4	5
115	Decomposition of poly(propylene carbonate) with UV sensitive iodonium salts. Polymer Degradation and Stability, 2011, 96, 686-702.	5.8	38
116	Self Humidifying Hybrid Anion-Cation Membrane Fuel Cell Operated Under Dry Conditions. Fuel Cells, 2010, 10, 54-63.	2.4	17
117	Photodefinable Epoxycyclohexyl Polyhedral Oligomeric Silsesquioxane. Journal of Electronic Materials, 2010, 39, 149-156.	2.2	12
118	Highly conductive polymers: superconductivity in nanochannels or an experimental artifact?. Journal of Nanoparticle Research, 2010, 12, 2335-2347.	1.9	8
119	Thermal-Mechanical Stress Modeling of Copper Chip-to-Substrate Pillar Connections. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 621-628.	1.3	8
120	Characterization of Anion Exchange Ionomers in Hybrid Polymer Electrolyte Fuel Cells. ChemSusChem, 2010, 3, 1398-1402.	6.8	19
121	Hybrid Polymer Electrolyte Fuel Cells: Alkaline Electrodes with Proton Conducting Membrane. Angewandte Chemie - International Edition, 2010, 49, 1299-1301.	13.8	59
122	Sol-gel based silica electrodes for inorganic membrane direct methanol fuel cells. Journal of Power Sources, 2010, 195, 2224-2229.	7.8	12
123	Crosslinked, epoxy-based anion conductive membranes for alkaline membrane fuel cells. Journal of Membrane Science, 2010, 350, 286-292.	8.2	113
124	Study of Alkaline Electrodes for Hybrid Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2010, 157, B1391.	2.9	28
125	Electroless Deposition and Characterization of Pt _x Ru _{1-x} Catalysts on Pt/C Nanoparticles for Methanol Oxidation. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	11
126	Three dimensional air-gap structures for MEMS packaging. , 2010, , .		1

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127	Air cavity low-loss signal lines on bt substrates for high frequency chip-to-chip communication. , 2009, , .		2
128	Patterning decomposable polynorbornene with electron beam lithography to create nanochannels. Journal of Vacuum Science & Technology B, 2009, 27, 2508.	1.3	12
129	Aqueous-Develop, Photosensitive Polynorbornene Dielectric: Properties and Characterization. Journal of Electronic Materials, 2009, 38, 778-786.	2.2	17
130	Anionic polysulfone ionomers and membranes containing fluorenyl groups for anionic fuel cells. Journal of Power Sources, 2009, 190, 285-292.	7.8	230
131	Solâ€“gel based sulfonic acid-functionalized silica proton conductive membrane. Journal of Power Sources, 2009, 193, 562-569.	7.8	29
132	Hybrid Anion and Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2009, 113, 11416-11423.	3.1	147
133	Adhesion Enhancement Between Electroless Copper and Epoxy-based Dielectrics. IEEE Transactions on Advanced Packaging, 2009, 32, 758-767.	1.6	19
134	Candidate membranes for the electrochemical salt-splitting of Sodium Sulfate. Journal of Applied Electrochemistry, 2008, 38, 777-783.	2.9	18
135	Air-Gaps for High-Performance On-Chip Interconnect Part II: Modeling, Fabrication, and Characterization. Journal of Electronic Materials, 2008, 37, 1534-1546.	2.2	12
136	Air-Gaps for High-Performance On-Chip Interconnect Part I: Improvement in Thermally Decomposable Template. Journal of Electronic Materials, 2008, 37, 1524-1533.	2.2	11
137	Phosphorus-doped glass proton exchange membranes for low temperature direct methanol fuel cells. Journal of Power Sources, 2008, 175, 91-97.	7.8	27
138	Carbon dioxide vent for direct methanol fuel cells. Journal of Power Sources, 2008, 185, 392-400.	7.8	11
139	Deposition of Pt_xRu_{1â”x} Catalysts for Methanol Oxidation in Micro Direct Methanol Fuel Cells. Israel Journal of Chemistry, 2008, 48, 251-257.	2.3	6
140	MEMS Switched Tunable Inductors. Journal of Microelectromechanical Systems, 2008, 17, 78-84.	2.5	43
141	All-Copper Chip-to-Substrate Interconnects Part I. Fabrication and Characterization. Journal of the Electrochemical Society, 2008, 155, D308.	2.9	35
142	High-Frequency Chip Connections. Science, 2008, 320, 756-757.	12.6	21
143	All-copper chip-to-substrate interconnects: Bonding, testing, and design for electrical performance and thermo-mechanical reliability. , 2008, , .		6
144	Platinumâ€“Glass Composite Electrode for Fuel Cell Applications. Electrochemical and Solid-State Letters, 2007, 10, B210.	2.2	9

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145	A packaged micromachined switched tunable inductor. , 2007, , .		7
146	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
147	Wafer-Level Packaging of Micromechanical Resonators. IEEE Transactions on Advanced Packaging, 2007, 30, 19-26.	1.6	34
148	Photoacid generators for catalytic decomposition of polycarbonate. Journal of Applied Polymer Science, 2007, 105, 2655-2662.	2.6	16
149	Air-Gap Transmission Lines on Organic Substrates for Low-Loss Interconnects. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1919-1925.	4.6	23
150	High-Q Micromachined Silver Passives and Filters. , 2006, , .		15
151	Wafer-level MEMS packaging via thermally released metal-organic membranes. Journal of Micromechanics and Microengineering, 2006, 16, 742-750.	2.6	54
152	Flexible pillars for displacement compensation in optical chip assembly. IEEE Photonics Technology Letters, 2006, 18, 974-976.	2.5	17
153	Electron-beam hardening of thin films of functionalized polynorbornene copolymer. Journal of Electronic Materials, 2006, 35, 1112-1121.	2.2	4
154	Improved fabrication of micro air-channels by incorporation of a structural barrier. Journal of Micromechanics and Microengineering, 2005, 15, 35-42.	2.6	35
155	Low Temperature Rapid Curing of Polymer Dielectrics on Metallized Organic Laminates by Variable Frequency Microwave Processing. Journal of Microelectronics and Electronic Packaging, 2005, 2, 142-154.	0.7	1
156	Hydrophobic/hydrophilic surface modification within buried air channels. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 953.	1.6	10
157	Crosslinking and decomposition reactions of epoxide-functionalized polynorbornene. II. Impact of reactions on mechanical properties. Journal of Applied Polymer Science, 2004, 91, 1020-1029.	2.6	11
158	Photosensitive polynorbornene based dielectric. II. Sensitivity and spatial resolution. Journal of Applied Polymer Science, 2004, 91, 3031-3039.	2.6	12
159	Photosensitive polynorbornene based dielectric. I. Structure-property relationships. Journal of Applied Polymer Science, 2004, 91, 3023-3030.	2.6	24
160	Planarization and Dielectric Properties of Thin Photosensitive and Nonphotosensitive BCB. Journal of Microelectronics and Electronic Packaging, 2004, 1, 47-52.	0.7	0
161	Photoinitiation systems and thermal decomposition of photodefinable sacrificial materials. Journal of Applied Polymer Science, 2003, 88, 1186-1195.	2.6	9
162	Crosslinking and decomposition reactions of epoxide functionalized polynorbornene. Part I. FTIR and thermogravimetric analysis. Journal of Applied Polymer Science, 2003, 89, 568-577.	2.6	50

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163	Sacrificial polymers for nanofluidic channels in biological applications. Nanotechnology, 2003, 14, 578-583.	2.6	98
164	Fabrication of Microchannels Using Polynorbornene Photosensitive Sacrificial Materials. Journal of the Electrochemical Society, 2003, 150, H205.	2.9	28
165	Chemically Bonded Porogens in Methylsilsequioxane. Journal of the Electrochemical Society, 2002, 149, F161.	2.9	45
166	Thermal Decomposition Kinetics of Functionalized Polynorbornene. Journal of Materials Research, 2002, 17, 632-640.	2.6	19
167	Chemically Bonded Porogens in Methylsilsequioxane. Journal of the Electrochemical Society, 2002, 149, F171.	2.9	23
168	Lithographic Characteristics and Thermal Processing of Photosensitive Sacrificial Materials. Journal of the Electrochemical Society, 2002, 149, G555.	2.9	13
169	Novel polymer-ceramic nanocomposite based on high dielectric constant epoxy formula for embedded capacitor application. Journal of Applied Polymer Science, 2002, 83, 1084-1090.	2.6	323
170	Variable-frequency microwave curing of benzocyclobutene. Journal of Applied Polymer Science, 2002, 83, 3055-3067.	2.6	38
171	Recrystallization and intermetallic formation in Au/Al and Au/Zn bimetallic films. Journal of Electronic Materials, 2002, 31, 1080-1089.	2.2	1
172	Moisture absorption studies of fluorocarbon films deposited from pentafluoroethane and octafluorocyclobutane plasmas. Journal of Electronic Materials, 2002, 31, 1096-1103.	2.2	14
173	Three-dimensional dielectric characterization of polymer films. Journal of Applied Polymer Science, 2001, 80, 2328-2334.	2.6	7
174	Porous Methylsilsequioxane for Low-k Dielectric Applications. Electrochemical and Solid-State Letters, 2001, 4, F25.	2.2	59
175	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
176	Fabrication of microchannels using polycarbonates as sacrificial materials. Journal of Micromechanics and Microengineering, 2001, 11, 733-737.	2.6	85
177	Multilayer planarization of polymer dielectrics. IEEE Transactions on Advanced Packaging, 2001, 24, 41-53.	1.6	15
178	Fabrication of Air-Gaps Between Cu Interconnects for Low Intralevel k.. Materials Research Society Symposia Proceedings, 2000, 612, 481.	0.1	3
179	Dual capacitor technique for measurement of through-plane modulus of thin polymer films. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 1634-1644.	2.1	15
180	In situ measurement of the thermal expansion behavior of benzocyclobutene films. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 311-321.	2.1	13

#	ARTICLE	IF	CITATIONS
181	Functionalized polynorbornene dielectric polymers: Adhesion and mechanical properties. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 3003-3010.	2.1	139
182	Electrochemical Etching of Silicon in Nonaqueous Electrolytes Containing Hydrogen Fluoride or Fluoroborate. Journal of the Electrochemical Society, 1999, 146, 1960-1965.	2.9	32
183	Plasma chemistry in fluorocarbon film deposition from pentafluoroethane/argon mixtures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 3265-3271.	2.1	65
184	Low-K Porous Spin-On-Glass. Materials Research Society Symposia Proceedings, 1999, 565, 55.	0.1	9
185	Air-Gaps for Electrical Interconnections. Electrochemical and Solid-State Letters, 1999, 1, 49.	2.2	38
186	Functionalized polynorbornene dielectric polymers: Adhesion and mechanical properties. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 3003-3010.	2.1	1
187	MBE growth of high quality GaN on LiGaO ₂ . Journal of Electronic Materials, 1998, 27, L58-L60.	2.2	30
188	Photoelectrochemical etching of semiconductors. IBM Journal of Research and Development, 1998, 42, 629-638.	3.1	29
189	Development of a New Force Field for Polynorbornene. Journal of Physical Chemistry B, 1998, 102, 9783-9790.	2.6	49
190	Electrosynthesis of Sodium Hydrosulfite: II. The Effect of Cathode Material. Journal of the Electrochemical Society, 1998, 145, 4057-4061.	2.9	4
191	Electrosynthesis of Sodium Hydrosulfite: I. Development of an Online Process Control Monitor. Journal of the Electrochemical Society, 1998, 145, 4052-4056.	2.9	3
192	Reactive Ion Etching of Silicon Containing Polynorbornenes. Journal of the Electrochemical Society, 1998, 145, 1257-1262.	2.9	8
193	Selective Wet Etching of Lithium Gallate. Journal of the Electrochemical Society, 1998, 145, L88-L90.	2.9	5
194	Electrosynthesis of Sodium Hydrosulfite: III. Porous Cathode Materials and Process Model. Journal of the Electrochemical Society, 1998, 145, 4062-4066.	2.9	7
195	Hydrazine cyanurate as a nitrogen source for thin nitride film growth. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 139-144.	2.1	3
196	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.	2.9	19
197	Stereochemical structure-property relationships in polynorbornene from simulation. Macromolecular Symposia, 1998, 133, 1-10.	0.7	15
198	Novel Technique for Measuring Through-Plane Thermo-Mechanical Properties of Thin Polymer Films. Materials Research Society Symposia Proceedings, 1998, 511, 183.	0.1	0

#	ARTICLE	IF	CITATIONS
199	Nitridation of Substrates With Hydrazine Cyanurate for The Growth of Gallium Nitride. Materials Research Society Symposia Proceedings, 1998, 512, 227.	0.1	0
200	Iron, Copper, and Nickel Behavior in Buffered, Neutral Aluminum Chloride: 1- <i>N</i> -Methyl-3- <i>N</i> -ethylimidazolium Chloride Molten Salt. Journal of the Electrochemical Society, 1997, 144, 1933-1938.	2.9	24
201	Polynorbornene for Low K Interconnection. Materials Research Society Symposia Proceedings, 1997, 476, 3.	0.1	17
202	Electrochemical Study of the Gold Thiosulfate Reduction. Journal of the Electrochemical Society, 1997, 144, 1686-1690.	2.9	51
203	Modeling of substrate-induced anisotropy in through-plane thermal behavior of polymeric thin films. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 1591-1596.	2.1	7
204	Photoluminescence in the Earliest Stages of Porous Silicon Formation. Journal of the Electrochemical Society, 1996, 143, L164-L166.	2.9	18
205	Plating and Stripping of Sodium from a Room Temperature 1,2- <i>N</i> -Dimethyl-3- <i>N</i> -propylimidazolium Chloride Melt. Journal of the Electrochemical Society, 1996, 143, 2262-2266.	2.9	9
206	Plating and Stripping of Sodium from a Room Temperature 1- <i>N</i> -Methyl-3- <i>N</i> -propylimidazolium Chloride Melt. Journal of the Electrochemical Society, 1996, 143, 3820-3824.	2.9	25
207	Nitridation and CVD reactions with hydrazine. AIChE Journal, 1995, 41, 2282-2291.	3.6	4
208	Plasma-Enhanced Chemical Vapor Deposition of Silicon Dioxide Deposited at Low Temperatures. Journal of the Electrochemical Society, 1995, 142, 2067-2071.	2.9	101
209	Stability of Sodium Electrodeposited from a Room Temperature Chloroaluminate Molten Salt. Journal of the Electrochemical Society, 1995, 142, 3636-3642.	2.9	40
210	The Autocatalytic Deposition of Gold in Nonalkaline, Gold Thiosulfate Electroless Bath. Journal of the Electrochemical Society, 1995, 142, 2250-2255.	2.9	46
211	Luminescent characteristics of a novel porous silicon structure formed in a nonaqueous electrolyte. Applied Physics Letters, 1994, 64, 1914-1916.	3.3	14
212	The Electrochemical Oxidation of Silicon and Formation of Porous Silicon in Acetonitrile. Journal of the Electrochemical Society, 1994, 141, 1006-1013.	2.9	159
213	Photoelectrochemical Etching of InAs. Journal of the Electrochemical Society, 1994, 141, 1274-1277.	2.9	5
214	Anisotropy in Thermal, Electrical and Mechanical Properties of Spin-Coated Polymer Dielectrics. Materials Research Society Symposia Proceedings, 1994, 338, 577.	0.1	7
215	Photoelectrochemical Etching of GaSb. Journal of the Electrochemical Society, 1993, 140, 3631-3635.	2.9	18
216	Gallium arsenide passivation through nitridation with hydrazine. Journal of Applied Physics, 1993, 74, 6448-6450.	2.5	20

#	ARTICLE	IF	CITATIONS
217	The Photoelectrochemical Oxidation of nâ€Si in Anhydrous â€HFâ€ in â€Acetonitrile. Journal of the Electrochemical Society, 1993, 140, L78-L80.	2.9	8
218	The Photoelectrochemical Etching of (100) and (111) pâ€InP. Journal of the Electrochemical Society, 1991, 138, 608-614.	2.9	5
219	A Novel Electrolyte for the Sodium/Iron Chloride Battery. Journal of the Electrochemical Society, 1991, 138, 339-340.	2.9	20
220	pâ€InP Photoetching. Journal of the Electrochemical Society, 1990, 137, 3315-3316.	2.9	3
221	An investigation of fundamental factors influencing the permittivity of composite for embedded capacitor. , 0, , .		6
222	Novel high dielectric constant nano-structure polymer-ceramic composite for embedded capacitor application. , 0, , .		9
223	Neural network modeling of variable frequency microwave curing. , 0, , .		4
224	Optimization of variable frequency microwave curing using neural networks and genetic algorithms. , 0, , .		4
225	Neural Network Modeling of Acid-Catalyzed Degradation of Photosensitive Polycarbonates. , 0, , .		0