Panagiotis Argitis

List of Publications by Year
in descending order

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208	4,752	87723	133063
papers	citations	38 h-index	59 g-index

213	213	213	6301
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Influence of Hydrogenation and Oxygen Vacancies on Molybdenum Oxides Work Function and Gap States for Application in Organic Optoelectronics. Journal of the American Chemical Society, 2012, 134, 16178-16187.	6.6	340
2	Hydrogenated under-stoichiometric tungsten oxide anode interlayers for efficient and stable organic photovoltaics. Journal of Materials Chemistry A, 2014, 2, 1738-1749.	5.2	161
3	A low temperature surface modification assisted method for bonding plastic substrates. Journal of Micromechanics and Microengineering, 2009, 19, 015007.	1.5	132
4	Molecular materials as interfacial layers and additives in perovskite solar cells. Chemical Society Reviews, 2020, 49, 4496-4526.	18.7	130
5	Harnessing photochemical internalization with dual degradable nanoparticles for combinatorial photoâ€“chemotherapy. Nature Communications, 2014, 5, 3623.	5.8	120
6	Old Metal Oxide Clusters in New Applications: Spontaneous Reduction of Keggin and Dawson Polyoxometalate Layers by a Metallic Electrode for Improving Efficiency in Organic Optoelectronics. Journal of the American Chemical Society, 2015, 137, 6844-6856.	6.6	115
7	Polyoxometalate-Based Layered Structures for Charge Transport Control in Molecular Devices. ACS Nano, 2008, 2, 733-742.	7.3	113
8	Photodegradable Polymers for Biotechnological Applications. Macromolecular Rapid Communications, 2012, 33, 183-198.	2.0	111
9	Reduction of Tungsten Oxide: A Path Towards Dual Functionality Utilization for Efficient Anode and Cathode Interfacial Layers in Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2011, 21, 1489-1497.	7.8	99
10	Fiberâ€Shaped Electronic Devices. Advanced Energy Materials, 2021, 11, 2101443.	10.2	74
11	Annealing-free highly crystalline solution-processed molecular metal oxides for efficient single-junction and tandem polymer solar cells. Energy and Environmental Science, 2015, 8, 2448-2463.	15.6	68
12	Solution processable tungsten polyoxometalate as highly effective cathode interlayer for improved efficiency and stability polymer solar cells. Solar Energy Materials and Solar Cells, 2013, 114, 205-213.	3.0	63
13	Surface passivation effect by fluorine plasma treatment on ZnO for efficiency and lifetime improvement of inverted polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 11844-11858.	5.2	62
14	High Sensitivity Resists for EUV Lithography: A Review of Material Design Strategies and Performance Results. Nanomaterials, 2020, 10, 1593.	1.9	62
15	Porphyrin oriented self-assembled nanostructures for efficient exciton dissociation in high-performing organic photovoltaics. Journal of Materials Chemistry A, 2014, 2, 182-192.	5.2	60
16	An advanced epoxy novolac resist for fast high-resolution electron-beam lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 3030.	1.6	57
17	Suppressing the Photocatalytic Activity of Zinc Oxide Electron-Transport Layer in Nonfullerene Organic Solar Cells with a Pyrene-Bodipy Interlayer. ACS Applied Materials & Interfaces, 2020, 12, 21961-21973.	4.0	57
18	A biomolecule friendly photolithographic process for fabrication of protein microarrays on polymeric films coated on silicon chips. Biosensors and Bioelectronics, 2007, 22, 1994-2002.	5.3	56

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19	High performance organic light emitting diodes using substoichiometric tungsten oxide as efficient hole injection layer. Organic Electronics, 2012, 13, 796-806.	1.4	56
20	Solutionâ€Processed Hydrogen Molybdenum Bronzes as Highly Conductive Anode Interlayers in Efficient Organic Photovoltaics. Advanced Energy Materials, 2014, 4, 1300896.	10.2	56
21	Polyhedral Oligomeric Silsesquioxane (POSS) Based Resists:â€‰ Material Design Challenges and Lithographic Evaluation at 157 nm. Chemistry of Materials, 2004, 16, 2567-2577.	3.2	55
22	Vertical devices of self-assembled hybrid organic/inorganic monolayers based on tungsten polyoxometalates. Microelectronic Engineering, 2008, 85, 1399-1402.	1.1	54
23	Barrierless hole injection through sub-bandgap occupied states in organic light emitting diodes using substoichiometric MoOx anode interfacial layer. Applied Physics Letters, 2012, 100, .	1.5	54
24	Inorganic and Hybrid Interfacial Materials for Organic and Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 2000910.	10.2	54
25	Laserâ€Induced Cell Detachment and Patterning with Photodegradable Polymer Substrates. Angewandte Chemie - International Edition, 2011, 50, 4142-4145.	7.2	53
26	Biocompatible photolithographic process for the patterning of biomolecules. Biosensors and Bioelectronics, 2002, 17, 269-278.	5.3	52
27	Atomicâ€Layerâ€Deposited Aluminum and Zirconium Oxides for Surface Passivation of TiO₂ in Highâ€Efficiency Organic Photovoltaics. Advanced Energy Materials, 2014, 4, 1400214.	10.2	52
28	Lithium Doping of ZnO for High Efficiency and Stability Fullerene and Non-fullerene Organic Solar Cells. ACS Applied Energy Materials, 2019, 2, 1663-1675.	2.5	52
29	Multi-analyte capillary immunosensor for the determination of hormones in human serum samples. Biosensors and Bioelectronics, 2002, 17, 261-268.	5.3	50
30	Tuning the Emitting Color of Organic Lightâ€Emitting Diodes Through Photochemically Induced Transformations: Towards Singleâ€Layer, Patterned, Fullâ€Color Displays and Whiteâ€Lighting Applications. Advanced Functional Materials, 2007, 17, 3477-3485.	7.8	50
31	Reduced molybdenum oxide as an efficient electron injection layer in polymer light-emitting diodes. Applied Physics Letters, 2011, 98, 123301.	1.5	49
32	Tunneling transport in polyoxometalate based composite materials. Applied Physics Letters, 2003, 83, 488-490.	1.5	47
33	Large work function shift of organic semiconductors inducing enhanced interfacial electron transfer in organic optoelectronics enabled by porphyrin aggregated nanostructures. Nano Research, 2014, 7, 679-693.	5.8	46
34	A water soluble inorganic molecular oxide as a novel efficient electron injection layer for hybrid light-emitting diodes (HyLEDs). Organic Electronics, 2010, 11, 887-894.	1.4	45
35	Avoiding ambient air and light induced degradation in high-efficiency polymer solar cells by the use of hydrogen-doped zinc oxide as electron extraction material. Nano Energy, 2017, 34, 500-514.	8.2	45
36	Thin-Film Study on the Oxidation of Linseed Oil in the Presence of Selected Copper Pigments. Chemistry of Materials, 1999, 11, 2013-2022.	3.2	44

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37	Theoretical Investigation on the Effect of Protonation on the Absorption and Emission Spectra of Two Amine-Group-Bearing, Red â€œPushâ^'Pullâ€•Emitters, 4-Dimethylamino-4â€²-nitrostilbene and 4-(dicyanomethylene)-2-methyl-6-‹i›p‹/i›-(dimethylamino) styryl-4H-pyran, by DFT and TDDFT Calculations. Journal of Physical Chemistry A, 2010, 114, 5580-5587.	1.1	42
38	Polyhedral oligomeric silsesquioxane (POSS) acrylate copolymers for microfabrication: properties and formulation of resist materials. Microelectronic Engineering, 2004, 73-74, 238-243.	1.1	38
39	Tungsten oxides as interfacial layers for improved performance in hybrid optoelectronic devices. Thin Solid Films, 2011, 519, 5748-5753.	0.8	38
40	Solâ€“gel synthesized, low-temperature processed, reduced molybdenum peroxides for organic optoelectronics applications. Journal of Materials Chemistry C, 2014, 2, 6290.	2.7	38
41	Porphyrinâ€Sensitized Evolution of Hydrogen using Dawson and Keplerate Polyoxometalate Photocatalysts. ChemSusChem, 2016, 9, 3213-3219.	3.6	37
42	Molecular Storage Elements for Proton Memory Devices. Advanced Materials, 2008, 20, 4568-4574.	11.1	36
43	Highly Efficient Bicolor (Greenâ^'Blue) Fluorescence Imaging in Polymeric Films. Chemistry of Materials, 2002, 14, 790-796.	3.2	35
44	Waterâ€Soluble Lacunary Polyoxometalates with Excellent Electron Mobilities and Hole Blocking Capabilities for High Efficiency Fluorescent and Phosphorescent Organic Light Emitting Diodes. Advanced Functional Materials, 2016, 26, 2655-2665.	7.8	35
45	Surface Modification of ZnO Layers via Hydrogen Plasma Treatment for Efficient Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 1194-1205.	4.0	35
46	Absorbance and outgasing of photoresist polymeric materials for UV lithography below 193 nm including 157 nm lithography. Microelectronic Engineering, 2000, 53, 123-126.	1.1	34
47	UV exposure and temperature effects on curing mechanisms in thin linseed oil films: Spectroscopic and chromatographic studies. Journal of Applied Polymer Science, 2002, 84, 936-949.	1.3	30
48	Evaluation of poly(hydroxyethyl methacrylate) imaging chemistries for micropatterning applications. Journal of Materials Chemistry, 2004, 14, 3312.	6.7	29
49	Photocatalytic multielectron photoreduction of 18-tungstodiphosphate in the presence of organic compounds â€” production of hydrogen. Journal of Photochemistry and Photobiology, 1985, 30, 445-451.	0.6	28
50	Plasma oxidation of polyhedral oligomeric silsesquioxane polymers. Journal of Vacuum Science & Technology B, 2006, 24, 2678.	1.3	27
51	Enhanced Organic and Perovskite Solar Cell Performance through Modification of the Electron-Selective Contact with a Bodipyâ€“Porphyrin Dyad. ACS Applied Materials & Interfaces, 2020, 12, 1120-1131.	4.0	27
52	Evaluation of siloxane and polyhedral silsesquioxane copolymers for 157 nm lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 2902.	1.6	26
53	Polymeric electrolytes for WO3-based all solid-state electrochromic displays. Microelectronic Engineering, 2006, 83, 1414-1417.	1.1	26
54	Electrochemical biosensor microarray functionalized by means of biomolecule friendly photolithography. Biosensors and Bioelectronics, 2010, 25, 2115-2121.	5.3	26

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55	Vapor-deposited hydrogenated and oxygen-deficient molybdenum oxide thin films for application in organic optoelectronics. Surface and Coatings Technology, 2013, 230, 202-207.	2.2	26
56	Development mechanism study by dissolution monitoring of positive methacrylate photoresists. Microelectronic Engineering, 2000, 53, 489-492.	1.1	25
57	Photolithographic patterning of proteins with photoresists processable under biocompatible conditions. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 2820.	1.6	25
58	Stochastic simulation studies of molecular resists. Microelectronic Engineering, 2007, 84, 1062-1065.	1.1	25
59	Fast Recovery of the High Work Function of Tungsten and Molybdenum Oxides via Microwave Exposure for Efficient Organic Photovoltaics. Journal of Physical Chemistry Letters, 2014, 5, 1871-1879.	2.1	25
60	A silanol-functionalized polyoxometalate with excellent electron transfer mediating behavior to ZnO and TiO₂ cathode interlayers for highly efficient and extremely stable polymer solar cells. Journal of Materials Chemistry C, 2018, 6, 1459-1469.	2.7	25
61	Free-radical synthesis of narrow polydispersed 2-hydroxyethyl methacrylate-based tetrapolymers for dilute aqueous base developable negative photoresists. Polymer, 2002, 43, 1103-1113.	1.8	24
62	Hydrogen and nitrogen codoping of anatase TiO2 for efficiency enhancement in organic solar cells. Scientific Reports, 2017, 7, 17839.	1.6	24
63	The challenges of 157 nm nanolithography: surface morphology of silicon-based copolymers. Materials Science and Engineering C, 2003, 23, 995-999.	3.8	23
64	Partially Fluorinated, Polyhedral Oligomeric Silsesquioxane-Functionalized (Meth)Acrylate Resists for 193 nm Bilayer Lithography. Chemistry of Materials, 2006, 18, 4040-4048.	3.2	23
65	1-D polymeric photonic crystals as spectroscopic zero-power humidity sensors. Microelectronic Engineering, 2014, 115, 55-60.	1.1	23
66	Low Work Function Lacunary Polyoxometalates as Electron Transport Interlayers for Inverted Polymer Solar Cells of Improved Efficiency and Stability. ACS Applied Materials & Interfaces, 2017, 9, 22773-22787.	4.0	23
67	Mass spectroscopic and degassing characteristics of polymeric materials for 157 nm photolithography. Applied Physics A: Materials Science and Processing, 1999, 69, S929-S933.	1.1	22
68	Engineering of Porphyrin Molecules for Use as Effective Cathode Interfacial Modifiers in Organic Solar Cells of Enhanced Efficiency and Stability. ACS Applied Materials & Interfaces, 2018, 10, 20728-20739.	4.0	22
69	Laser plasma x-ray contact microscopy of living specimens using a chemically amplified epoxy resist. Applied Physics Letters, 1998, 72, 3258-3260.	1.5	21
70	Vanadium-sensitized photochemistry of heteropoly compounds. Mixed molybdo- and tungstovandates. Inorganic Chemistry, 1986, 25, 4386-4389.	1.9	20
71	157-nm Laser ablation of polymeric layers for fabrication of biomolecule microarrays. Analytical and Bioanalytical Chemistry, 2005, 381, 1027-1032.	1.9	20
72	Insights into the passivation effect of atomic layer deposited hafnium oxide for efficiency and stability enhancement in organic solar cells. Journal of Materials Chemistry C, 2018, 6, 8051-8059.	2.7	20

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73	Deep Ultraviolet Photoresist Based on Tungsten Polyoxometalates and Poly(Vinyl Alcohol) for Bilayer Photolithography. Journal of the Electrochemical Society, 1992, 139, 786-793.	1.3	18
74	Polymer self-assembled nano-structures and surface relief gratings induced with laser at 157nm. Applied Surface Science, 2007, 253, 7884-7889.	3.1	18
75	Optical Modeling of Hybrid Polymer Solar Cells Using a Transmission-Line Model and Comparison With Experimental Results. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1784-1791.	1.9	18
76	Highly porous tungsten oxides for electrochromic applications. Microelectronic Engineering, 2013, 111, 149-153.	1.1	18
77	Organic solar cells of enhanced efficiency and stability using zinc oxide:zinc tungstate nanocomposite as electron extraction layer. Organic Electronics, 2019, 71, 227-237.	1.4	18
78	Determination of acid diffusion and energy deposition parameters by point e-beam exposure in chemically amplified resists. Microelectronic Engineering, 1996, 30, 295-299.	1.1	17
79	Dilute aqueous base developable resists for environmentally friendly and biocompatible processes. Microelectronic Engineering, 2002, 61-62, 819-827.	1.1	17
80	Molecular junctions made of tungsten-polyoxometalate self-assembled monolayers: Towards polyoxometalate-based molecular electronics devices. Microelectronic Engineering, 2011, 88, 2775-2777.	1.1	17
81	All-Organic Sulfonium Salts Acting as Efficient Solution Processed Electron Injection Layer for PLEDs. ACS Applied Materials & Interfaces, 2013, 5, 12346-12354.	4.0	17
82	Solution-processed nanostructured zinc oxide cathode interfacial layers for efficient inverted organic photovoltaics. Microelectronic Engineering, 2014, 119, 100-104.	1.1	17
83	Multi-electron reduction of Wellsâ€“Dawson polyoxometalate films onto metallic, semiconducting and dielectric substrates. Physical Chemistry Chemical Physics, 2019, 21, 427-437.	1.3	17
84	Application of a reaction-diffusion model for negative chemically amplified resists to determine electron-beam proximity correction parameters. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 4252.	1.6	16
85	Electron beam lithography simulation for high resolution and high-density patterns. Vacuum, 2001, 62, 263-271.	1.6	16
86	Surface segregation of photoresist copolymers containing polyhedral oligomeric silsesquioxanes studied by x-ray photoelectron spectroscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 2526.	1.6	16
87	Characterization of various low-kdielectrics for possible use in applications at temperatures below 160 Â°C. Journal of Physics: Conference Series, 2005, 10, 218-221.	0.3	16
88	Energy transfer processes among emitters dispersed in a single polymer layer for colour tuning in OLEDs. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2526-2531.	0.8	16
89	Incorporating triphenyl sulfonium salts in polyfluorene PLEDs: an all-organic approach to improved charge injection. Journal of Materials Chemistry, 2011, 21, 9296.	6.7	16
90	Photocatalytic processes by polyoxometalates. Splitting of water. The role of dioxygen. Molecular Engineering, 1993, 3, 231-239.	0.2	15

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91	Electrical characterization of molecular monolayers containing tungsten polyoxometalates. Microelectronic Engineering, 2006, 83, 1757-1760.	1.1	15
92	Layer-by-layer UV micromachining methodology of epoxy resist embedded microchannels. Microelectronic Engineering, 2006, 83, 1298-1301.	1.1	14
93	Atomic layer deposited zirconium oxide electron injection layer for efficient organic light emitting diodes. Organic Electronics, 2013, 14, 312-319.	1.4	14
94	Protein-Resistant Cross-Linked Poly(vinyl alcohol) Micropatterns via Photolithography Using Removable Polyoxometalate Photocatalyst. ACS Applied Materials & Interfaces, 2014, 6, 17463-17473.	4.0	14
95	Some photochemical aspects of polynuclear complexes of molybdenum and tungsten. Journal of Photochemistry and Photobiology, 1981, 17, 171-172.	0.6	13
96	A transmission line model for the optical simulation of multilayer structures and its application for oblique illumination of an organic solar cell with anisotropic extinction coefficient. Journal of Applied Physics, 2011, 110, 114506.	1.1	13
97	Tungsten polyoxometalate molecules as active nodes for dynamic carrier exchange in hybrid molecular/semiconductor capacitors. Journal of Applied Physics, 2014, 116, 143703.	1.1	13
98	Dehydration of molybdenum oxide hole extraction layers via microwave annealing for the improvement of efficiency and lifetime in organic solar cells. Journal of Materials Chemistry C, 2016, 4, 7683-7694.	2.7	13
99	Strippable aqueous base developable negative photoresist for high aspect ratio micromachining. Microelectronic Engineering, 2002, 61-62, 729-735.	1.1	12
100	Photoresist etch resistance enhancement using novel polycarbocyclic derivatives as additives. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 141.	1.6	12
101	Self assembled structures on fluoro-polymers induced with laser light at 157nm. Applied Surface Science, 2005, 248, 248-253.	3.1	12
102	Highly transparent partially fluorinated methacrylate polymers for optical waveguides. Microelectronic Engineering, 2009, 86, 1142-1145.	1.1	12
103	Characterization of various insulators for possible use as low-k dielectrics deposited at temperatures below 200Â°C. Microelectronics Reliability, 2005, 45, 990-993.	0.9	11
104	Stochastic simulation studies of molecular resists for the 32nm technology node. Microelectronic Engineering, 2008, 85, 949-954.	1.1	11
105	Radiation Sensors Based on the Generation of Mobile Protons in Organic Dielectrics. ACS Applied Materials & Interfaces, 2013, 5, 5667-5674.	4.0	11
106	Theoretical study on the electronic structure of triphenyl sulfonium salts: Electronic excitation and electron transfer processes. Chemical Physics Letters, 2014, 601, 63-68.	1.2	11
107	Functionalized Zinc Porphyrins with Various Peripheral Groups for Interfacial Electron Injection Barrier Control in Organic Light Emitting Diodes. ACS Omega, 2018, 3, 10008-10018.	1.6	11
108	Guided cell adhesion, orientation, morphology and differentiation on silicon substrates photolithographically micropatterned with a cell-repellent cross-linked poly(vinyl alcohol) film. Biomedical Materials (Bristol), 2019, 14, 014101.	1.7	11

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109	Micropatterned Films of Tungsten Nuclei for Subsequent Metallization Formed of a Phosphotungstic Acidâ€Based Negative Resist. Journal of the Electrochemical Society, 1992, 139, 2889-2894.	1.3	10
110	Photochemically-induced ligand exchange reactions of ethoxy-oxo-molybdenum(V) tetraphenylporphyrin in chlorinated solvents. Polyhedron, 2006, 25, 3427-3434.	1.0	10
111	Flexible organic light emitting diodes (OLEDs) based on a blue emitting polyfluorene. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3658-3662.	0.8	10
112	Aqueous base development and acid diffusion length optimization in negative epoxy resist for electron beam lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 3431.	1.6	9
113	Partially hydrogenated poly(vinyl phenol) based photoresist for near UV, high aspect ratio micromachining. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 2968.	1.6	9
114	Allâ€organic optocouplers based on polymer lightâ€emitting diodes and photodetectors. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2522-2525.	0.8	9
115	Surface modification of polyhedral oligomeric silsesquioxane block copolymer films by 157 nm laser light. Journal of Applied Physics, 2009, 105, .	1.1	9
116	Materials for lithography in the nanoscale. International Journal of Nanotechnology, 2009, 6, 71.	0.1	9
117	Thermally-Induced Acid Generation from 18-Molybdodiphosphate and 18-Tungstodiphosphate within Poly(2-Hydroxyethyl Methacrylate) Films. Chemistry of Materials, 2010, 22, 2730-2740.	3.2	9
118	Reduced transition metal oxides as electron injection layers in hybrid-PLEDs. Microelectronic Engineering, 2012, 90, 59-61.	1.1	9
119	Influence of the anion on the optoelectronic characteristics of triphenylsulfonium salts modified polymer light emitting devices. Synthetic Metals, 2013, 181, 37-44.	2.1	9
120	Transport properties of polyoxometalate containing polymeric materials. Synthetic Metals, 2003, 138, 267-269.	2.1	8
121	Hybrid organicâ€“inorganic materials for molecular proton memory devices. Organic Electronics, 2009, 10, 711-718.	1.4	8
122	Effect of triphenylsulfonium triflate addition in wide band-gap polymer light-emitting diodes: improved charge injection, transport and electroplex-induced emission tuning. RSC Advances, 2012, 2, 11786.	1.7	8
123	Scalable fabrication of nanostructured p-Si/n-ZnO heterojunctions by femtosecond-laser processing. Materials Research Express, 2014, 1, 045902.	0.8	8
124	Organic photovoltaic performance improvement using atomic layer deposited ZnO electron-collecting layers. Solid-State Electronics, 2014, 101, 50-56.	0.8	8
125	Improved Stability of Polymer Solar Cells in Ambient Air via Atomic Layer Deposition of Ultrathin Dielectric Layers. Advanced Materials Interfaces, 2017, 4, 1700231.	1.9	8
126	A carbon-doped tantalum dioxyfluoride as a superior electron transport material for high performance organic optoelectronics. Nano Energy, 2020, 70, 104508.	8.2	8

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127	Silylation of epoxy functionalised photoresists for optical, e-beam lithography and micromachining applications. Microelectronic Engineering, 1998, 41-42, 335-338.	1.1	7
128	Silylation and Dry Development of Chemically Amplified Resists SAL601*, AZPN114*1, and Epoxidised Resist (EPR*1) for High Resolution Electron-Beam Lithography. Japanese Journal of Applied Physics, 1998, 37, 6873-6876.	0.8	7
129	Photoresist materials for 157-nm photolithography. Materials Science and Engineering C, 2001, 15, 159-161.	3.8	7
130	Negative (meth)acrylate resist materials based on novel crosslinking chemistry. Microelectronic Engineering, 2001, 57-58, 539-545.	1.1	7
131	Nano-scale spatial control over surface morphology of biocompatible fluoropolymers at 157Ânm. Materials Science and Engineering C, 2007, 27, 1191-1196.	3.8	7
132	Aqueous base developable: easy stripping, high aspect ratio negative photoresist for optical and proton beam lithography. Microsystem Technologies, 2008, 14, 1423-1428.	1.2	7
133	The role of metal/metal oxide/organic anode interfaces in efficiency and stability of bulk heterojunction organic photodetectors. Microelectronic Engineering, 2014, 117, 13-17.	1.1	7
134	Plasma induced degradation and surface electronic structure modification of Poly(3-hexylthiophene) films. Polymer Degradation and Stability, 2018, 149, 162-172.	2.7	7
135	Defect passivation in perovskite solar cells using an amino-functionalized BODIPY fluorophore. Sustainable Energy and Fuels, 2022, 6, 2570-2580.	2.5	7
136	Fabrication of Si nanodevices by optical lithography and anisotropic etching. Microelectronic Engineering, 1998, 41-42, 523-526.	1.1	6
137	Electron-beam lithography on multilayer substrates: experimental and theoretical study. , 1998, , .		6
138	Aqueous base developable epoxy resist for high sensitivity electron beam lithography. Microelectronic Engineering, 2000, 53, 453-456.	1.1	6
139	Resist process issues related to the glass transition changes in chemically amplified resist films. Microelectronic Engineering, 2003, 67-68, 283-291.	1.1	6
140	Exposure of molecular glass resist by e-beam and EUVIL. , 2007, , .		6
141	Optimized surface silylation of chemically amplified epoxidized photoresists for micromachining applications. Journal of Applied Polymer Science, 2010, 117, 2189-2195.	1.3	6
142	Photo-patternable fluorinated polyhedral oligomeric silsequioxane-functionalized (POSS-F) polymeric materials with ultra low dielectric constants. Materials Chemistry and Physics, 2012, 135, 880-883.	2.0	6
143	Solution processed multi-color organic light emitting diodes for application in telecommunications. Microelectronic Engineering, 2015, 145, 21-28.	1.1	6
144	Interfacial engineering for organic and perovskite solar cells using molecular materials. Journal Physics D: Applied Physics, 2020, 53, 263001.	1.3	6

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145	Gel formation theory approach for the modelling of negative chemically amplified e-beam resists. Microelectronic Engineering, 1997, 35, 157-160.	1.1	5
146	Calculation of energy deposition in thin resist films over multilayer substrates. Microelectronic Engineering, 1998, 41-42, 171-174.	1.1	5
147	Optical characterisation of thin organic films by analysing transmission measurements with the Forouhi-Bloomer model. Microelectronic Engineering, 1998, 41-42, 619-622.	1.1	5
148	High aspect ratio micro/nano machining with proton beam writing on aqueous developable â€“ easily stripped negative chemically-amplified resists. Microelectronic Engineering, 2008, 85, 945-948.	1.1	5
149	A combined experimental and simulation study on thickness dependence of the emission characteristics in multicolor single layer organic light-emitting diodes. Applied Physics Letters, 2008, 93, 083310.	1.5	5
150	Photopatterned PLED arrays for biosensing applications. Microelectronic Engineering, 2009, 86, 1511-1514.	1.1	5
151	Emergence of ambient temperature ferroelectricity in meso-tetrakis(1-methylpyridinium-4-yl)porphyrin chloride thin films. Applied Physics Letters, 2013, 103, 022908.	1.5	5
152	The effect of TiO₂ component on the properties of acrylic and urea-aldehyde resins under accelerated ageing conditions. Pure and Applied Chemistry, 2017, 89, 1659-1671.	0.9	5
153	Epoxidized novolac resist (EPR) for high-resolution negative- and positive-tone electron beam lithography. , 2000, 3999, 1181.		4
154	Application of a Novel Aqueous Base Developable Resist in Micromachining.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2001, 14, 445-448.	0.1	4
155	Nanostructured imaging of biological specimens in vivo with laser plasma X-ray contact microscopy. Materials Science and Engineering C, 2003, 23, 105-108.	3.8	4
156	Glass Transition Temperature Monitoring in Bilayer and Patterned Photoresist Films. Japanese Journal of Applied Physics, 2004, 43, 5247-5248.	0.8	4
157	Fabrication of WO3-based electrochromic displays using solid or gel-like organic electrolytes. Journal of Physics: Conference Series, 2005, 10, 329-332.	0.3	4
158	Powerless and Reversible Color Humidity Sensor. Procedia Engineering, 2011, 25, 1177-1180.	1.2	4
159	Bio-orthogonal fluorinated resist for biomolecules patterning applications. Colloids and Surfaces B: Biointerfaces, 2019, 178, 208-213.	2.5	4
160	Reversible chemocapacitor system based on PDMAEMA polymers for fast sensing of VOCs mixtures. Microelectronic Engineering, 2020, 227, 111304.	1.1	4
161	Theoretical discussion of diffusion effects in negative chemically amplified resists based on contrast curve simulation. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 2561.	1.6	3
162	Polyhedral oligomeric silsesquioxane (POSS) based resist materials for 157-nm lithography. , 2003, , .		3

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