

Hung-Ju Yen

List of Publications by Year in descending order

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82
papers

4,131
citations

81900

39
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114465

63
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87
docs citations

87
times ranked

3657
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution-processable triarylamine-based electroactive high performance polymers for anodically electrochromic applications. <i>Polymer Chemistry</i> , 2012, 3, 255-264.	3.9	216
2	Flexible Multi-Color Electrochromic and Volatile Polymer Memory Devices Derived from Starburst Triarylamine-Based Electroactive Polyimide. <i>Advanced Functional Materials</i> , 2013, 23, 5307-5316.	14.9	183
3	Strategic Structural Design of a Gel Polymer Electrolyte toward a High Efficiency Lithium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2019, 2, 3937-3971.	5.1	151
4	Recent advances in triphenylamine-based electrochromic derivatives and polymers. <i>Polymer Chemistry</i> , 2018, 9, 3001-3018.	3.9	147
5	Novel Starburst Triarylamine-Containing Electroactive Aramids with Highly Stable Electrochromism in Near-Infrared and Visible Light Regions. <i>Chemistry of Materials</i> , 2011, 23, 1874-1882.	6.7	134
6	High Contrast Ratio and Rapid Switching Electrochromic Polymeric Films Based on 4-(Dimethylamino)triphenylamine-Functionalized Aromatic Polyamides. <i>Macromolecules</i> , 2008, 41, 2800-2808.	4.8	129
7	Solution-Processable Novel Near-Infrared Electrochromic Aromatic Polyamides Based on Electroactive Tetraphenyl-Phenylenediamine Moieties. <i>Chemistry of Materials</i> , 2009, 21, 4062-4070.	6.7	120
8	Design and preparation of triphenylamine-based polymeric materials towards emergent optoelectronic applications. <i>Progress in Polymer Science</i> , 2019, 89, 250-287.	24.7	116
9	Highly transparent polyimide hybrids for optoelectronic applications. <i>Reactive and Functional Polymers</i> , 2016, 108, 2-30.	4.1	114
10	Highly flexible and optical transparent 6F-PI/TiO ₂ optical hybrid films with tunable refractive index and excellent thermal stability. <i>Journal of Materials Chemistry</i> , 2010, 20, 531-536.	6.7	92
11	A new pH sensitive fluorescent and white light emissive material through controlled intermolecular charge transfer. <i>Chemical Science</i> , 2015, 6, 789-797.	7.4	89
12	Novel organosoluble aromatic polyimides bearing pendant methoxy-substituted triphenylamine moieties: Synthesis, electrochromic, and gas separation properties. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7937-7949.	2.3	86
13	Resistive switching non-volatile and volatile memory behavior of aromatic polyimides with various electron-withdrawing moieties. <i>Journal of Materials Chemistry</i> , 2012, 22, 14085.	6.7	86
14	Novel blue and red electrochromic poly(azomethine ether)s based on electroactive triphenylamine moieties. <i>Organic Electronics</i> , 2010, 11, 299-310.	2.6	77
15	Various Digital Memory Behaviors of Functional Aromatic Polyimides Based on Electron Donor and Acceptor Substituted Triphenylamines. <i>Macromolecules</i> , 2012, 45, 3749-3758.	4.8	73
16	Flexible electrofluorochromic devices with the highest contrast ratio based on aggregation-enhanced emission (AEE)-active cyanotriphenylamine-based polymers. <i>Chemical Communications</i> , 2013, 49, 9797.	4.1	72
17	Structurally Defined 3D Nanographene Assemblies via Bottom-Up Chemical Synthesis for Highly Efficient Lithium Storage. <i>Advanced Materials</i> , 2016, 28, 10250-10256.	21.0	72
18	Solution-processable triarylamine-based high-performance polymers for resistive switching memory devices. <i>Polymer Journal</i> , 2016, 48, 117-138.	2.7	70

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19	Novel programmable functional polyimides: preparation, mechanism of CT induced memory, and ambipolar electrochromic behavior. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7623.	5.5	68
20	Transmissive to black electrochromic aramids with high near-infrared and multicolor electrochromism based on electroactive tetraphenylbenzidine units. <i>Journal of Materials Chemistry</i> , 2011, 21, 6230.	6.7	67
21	A New Class of High T _g and Organosoluble Aromatic Poly(amine ⁺ 1,3,4-oxadiazole)s Containing Donor and Acceptor Moieties for Blue-Light-Emitting Materials. <i>Macromolecules</i> , 2006, 39, 6036-6045.	4.8	66
22	Substituent Effect on Electrochemical and Electrochromic Behaviors of Ambipolar Aromatic Polyimides Based on Aniline Derivatives. <i>Macromolecules</i> , 2011, 44, 9595-9610.	4.8	64
23	Nonvolatile transistor memory devices using high dielectric constant polyimide electrets. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3235.	5.5	64
24	Large Grained Perovskite Solar Cells Derived from Single-Crystal Perovskite Powders with Enhanced Ambient Stability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14513-14520.	8.0	64
25	Novel high-efficiency PL polyimide nanofiber containing aggregation-induced emission (AIE)-active cyanotriphenylamine luminogen. <i>Chemical Communications</i> , 2013, 49, 630-632.	4.1	62
26	Enhanced near-infrared electrochromism in triphenylamine-based aramids bearing phenothiazine redox centers. <i>Journal of Materials Chemistry</i> , 2010, 20, 9886.	6.7	61
27	Flexible nanocrystalline TiO ₂ /polyimide hybrids with high refractive index and excellent thermal dimensional stability. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1433-1440.	2.3	60
28	Novel triphenylamine-containing ambipolar polyimides with pendant anthraquinone moiety for polymeric memory device, electrochromic and gas separation applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 20394.	6.7	60
29	Structural Design of Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]dithiophene-Based 2D Conjugated Polymers with Bithienyl and Terthienyl Substituents toward Photovoltaic Applications. <i>Macromolecules</i> , 2014, 47, 1008-1020.	4.8	56
30	Colorless Triphenylamine-Based Aliphatic Thermoset Epoxy for Multicolored and Near-Infrared Electrochromic Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3594-3599.	8.0	56
31	Graphene Oxides Used as a New "Dual Role" Binder for Stabilizing Silicon Nanoparticles in Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15665-15672.	8.0	56
32	Novel high-performance polymer memory devices containing (OMe) ₂ tetraphenylphenylenediamine moieties. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3709-3718.	2.3	52
33	Synthesis and photoluminescent and electrochromic properties of aromatic poly(amine amide)s bearing pendent N-carbazolylphenyl moieties. <i>Journal of Polymer Science Part A</i> , 2006, 44, 4108-4121.	2.3	51
34	Programmable digital nonvolatile memory behaviors of donor-acceptor polyimides bearing triphenylamine derivatives: effects of substituents. <i>Polymer Chemistry</i> , 2012, 3, 1276.	3.9	51
35	Triphenylamine-based polyimides with trimethyl substituents for gas separation membrane and electrochromic applications. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3637-3646.	2.3	49
36	Functionalized fullerenes for highly efficient lithium ion storage: Structure-property-performance correlation with energy implications. <i>Nano Energy</i> , 2017, 40, 327-335.	16.0	49

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37	High Efficiency Photoluminescence Wholly Aromatic Triarylamine-based Polyimide Nanofiber with Aggregation-Induced Emission Enhancement. <i>Advanced Optical Materials</i> , 2013, 1, 668-676.	7.3	47
38	A novel porphyrin-containing polyimide for memory devices. <i>Polymer Chemistry</i> , 2016, 7, 2780-2784.	3.9	45
39	Novel thermally stable and soluble triarylamine functionalized polyimides for gas separation. <i>Polymer Chemistry</i> , 2014, 5, 4219.	3.9	43
40	A facile approach towards optically isotropic, colorless, and thermoplastic polyimidothioethers with high refractive index. <i>Journal of Materials Chemistry</i> , 2010, 20, 4080.	6.7	37
41	Electrically bistable digital memory behaviors of thin films of polyimides based on conjugated bis(triphenylamine) derivatives. <i>Polymer</i> , 2012, 53, 4135-4144.	3.8	37
42	Flexible, optically transparent, high refractive, and thermally stable polyimide-TiO ₂ hybrids for anti-reflection coating. <i>RSC Advances</i> , 2013, 3, 17048.	3.6	35
43	Tyrosine-derived stimuli responsive, fluorescent amino acids. <i>Chemical Science</i> , 2015, 6, 1150-1158.	7.4	35
44	Flexible memory devices with tunable electrical bistability via controlled energetics in donor-donor and donor-acceptor conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4374-4378.	5.5	34
45	Synthesis and properties of wholly aromatic polymers bearing cardo fluorene moieties. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4352-4363.	2.3	33
46	Synthesis and Properties of Noncoplanar Rigid-rod Aromatic Polyamides Containing Phenyl or Naphthyl Substituents. <i>Journal of Polymer Research</i> , 2007, 14, 147-155.	2.4	33
47	Novel thermally stable triarylamine-containing aromatic polyamides bearing anthrylamine chromophores for highly efficient green-light-emitting materials. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7354-7368.	2.3	33
48	Mixed-valence class I transition and electrochemistry of bis(triphenylamine)-based aramids containing isolated ether linkage. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3805-3816.	2.3	32
49	Electrochromism and Nonvolatile Memory Device Derived from Triphenylamine-Based Polyimides with Pendant Viologen Units. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600715.	3.9	32
50	Development of Conjugated Polymers for Memory Device Applications. <i>Polymers</i> , 2017, 9, 25.	4.5	31
51	Synthesis and photophysical properties of novel organo-soluble polyarylates bearing triphenylamine moieties. <i>Journal of Polymer Research</i> , 2007, 14, 191-199.	2.4	30
52	Poly(amine-amide-imide)s Bearing Pendant N-Carbazolylphenyl Moieties: Synthesis and Electrochromic Properties. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1589-1598.	2.2	29
53	Synthesis and photoluminescence properties of novel polyarylates bearing pendant naphthylamine chromophores. <i>European Polymer Journal</i> , 2008, 44, 2608-2618.	5.4	29
54	Synthesis and characterization of electroactive hyperbranched aromatic polyamides based on A ₂ B-type triphenylamine moieties. <i>Journal of Materials Chemistry</i> , 2009, 19, 7666.	6.7	29

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55	Red, green, and blue electrochromism in ambipolar poly(amineâ€“amideâ€“imide)s based on electroactive tetraphenylâ€“pâ€“phenylenediamine units. <i>Journal of Polymer Science Part A</i> , 2010, 48, 4747-4757.	2.3	29
56	Preparation and characterization of near-infrared and multi-colored electrochromic aramids based on aniline-derivatives. <i>Organic Electronics</i> , 2012, 13, 840-849.	2.6	27
57	Novel near-infrared and multi-colored electrochromic polybenzoxazines with electroactive triarylamine moieties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7796.	5.5	27
58	Synthesis and unexpected electrochemical behavior of the triphenylamineâ€“based aramids with <i>ortho</i> - and <i>para</i> -trimethylâ€“protective substituents. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5271-5281.	2.3	26
59	A facile approach to multicolored electrochromic triarylamine-based thermoset epoxy materials with tunable intervalence charge transfer behavior. <i>Chemical Communications</i> , 2013, 49, 9812.	4.1	26
60	Synthesis, photoluminescence, and electrochromic properties of wholly aromatic polyamides bearing naphthylamine chromophores. <i>Journal of Polymer Science Part A</i> , 2006, 44, 6094-6102.	2.3	24
61	Novel triarylamine-based polybenzoxazines with a donorâ€“acceptor system for polymeric memory devices. <i>Chemical Communications</i> , 2014, 50, 13917-13920.	4.1	23
62	Cyanotriphenylamine-based polyimidothioethers as multifunctional materials for ambipolar electrochromic and electrofluorochromic devices, and fluorescent electrospun fibers. <i>Polymer Chemistry</i> , 2018, 9, 1693-1700.	3.9	23
63	High <i>T_g</i> , ambipolar, and nearâ€“infrared electrochromic anthraquinoneâ€“based aramids with intervalence chargeâ€“transfer behavior. <i>Journal of Polymer Science Part A</i> , 2012, 50, 61-69.	2.3	22
64	Side-chain and linkage-mediated effects of anthraquinone moieties on ambipolar poly(triphenylamine)-based volatile polymeric memory devices. <i>Chemical Communications</i> , 2014, 50, 4915.	4.1	20
65	Dicyanotriphenylamine-Based Polyimides as High-Performance Electrodes for Next Generation Organic Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17467-17477.	8.0	19
66	Novel solution-processable optically isotropic colorless polyimidothioethersâ€“TiO ₂ hybrids with tunable refractive index. <i>Journal of Materials Chemistry</i> , 2012, 22, 17236.	6.7	18
67	Nearâ€“infrared electrochromic poly(aryl ether)s based on isolated electroactive tetraphenylâ€“pâ€“phenylenediamine moieties. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5378-5385.	2.3	16
68	High performance polymers and their PCBM hybrids for memory device application. <i>Polymer Chemistry</i> , 2015, 6, 7464-7469.	3.9	16
69	Synthesis, photoluminescence, and electrochromism of novel aromatic poly(amineâ€“1,3,4-oxadiazole)s bearing anthrylamine chromophores. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1584-1594.	2.3	15
70	Zinc and linkage effects of novel porphyrin-containing polyimides on resistor memory behaviors. <i>RSC Advances</i> , 2016, 6, 88531-88537.	3.6	15
71	An Efficient and Reversible Battery Anode Electrode Derived from a Lead-Based Metalâ€“Organic Framework. <i>Energy & Fuels</i> , 2021, 35, 9669-9682.	5.1	13
72	The steric effect of <i>1</i> - and <i>2</i> -substituted anthraquinone units on high performance polymeric memory devices. <i>Polymer Chemistry</i> , 2015, 6, 7758-7763.	3.9	11

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73	Novel triarylamine-based aromatic polyamides bearing secondary amines: synthesis and redox potential inversion characteristics induced by pyridines. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10381-10385.	5.5	10
74	Pure carbon-based electrodes for metal-ion batteries. <i>Carbon Trends</i> , 2021, 3, 100035.	3.0	10
75	Synthesis, electrochemistry, STM investigation of oligothiophene self-assemblies with superior structural order and electronic properties. <i>Chemical Physics</i> , 2016, 481, 191-197.	1.9	8
76	Observation of ionic hydrogen bonding between anions and triarylamine-based aromatic polyimides with secondary amine. <i>Electrochimica Acta</i> , 2018, 261, 307-313.	5.2	8
77	Conjugation of Amphiphilic Proteins to Hydrophobic Ligands in Organic Solvent. <i>Bioconjugate Chemistry</i> , 2018, 29, 2654-2664.	3.6	7
78	Dual-Ligand Zn-Based Metal-Organic Framework as Reversible and Stable Anode Material for Next Generation Lithium-Ion Batteries. <i>Energy Technology</i> , 2021, 9, 2100212.	3.8	5
79	CHAPTER 4. High Performance Polyimides for Resistive Switching Memory Devices. <i>RSC Polymer Chemistry Series</i> , 2015, , 136-166.	0.2	2
80	(Invited) Inorganic/Organic Hybrid Perovskites for Energy-Related Applications. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 690-690.	0.0	0
81	Structurally Defined Nanographene Assemblies for Highly Efficient Lithium Storage. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
82	Electrofluorochromism in AIE luminogens. , 2022, , 397-425.		0