Emil J W List-Kratochvil

List of Publications by Citations

242 papers	9,962 citations	45 h-index	94 g-index
268 ext. papers	10,584 ext. citations	6.1 avg, IF	6.02 L-index

#	Paper	IF	Citations
242	Semiconducting Polyfluorenes—Towards Reliable Structure–Property Relationships. *Advanced Materials*, **2002**, 14, 477-487	24	1495
241	The Effect of Keto Defect Sites on the Emission Properties of Polyfluorene-Type Materials. *Advanced Materials*, **2002**, 14, 374	24	643
240	Polyfluorenes with polyphenylene dendron side chains: toward non-aggregating, light-emitting polymers. *Journal of the American Chemical Society*, **2001**, 123, 946-53	16.4	583
239	Efficient white light-emitting diodes realized with new processable blends of conjugated polymers. *Applied Physics Letters*, **1997**, 71, 2883-2885	3.4	285
238	Direct Ink-Jet Printing of Ag–Cu Nanoparticle and Ag-Precursor Based Electrodes for OFET Applications. *Advanced Functional Materials*, **2007**, 17, 3111-3118	15.6	266
237	The Origin of Green Emission in Polyfluorene-Based Conjugated Polymers: On-Chain Defect Fluorescence. *Advanced Functional Materials*, **2003**, 13, 597-601	15.6	243
236	Ladder-type pentaphenylenes and their polymers: efficient blue-light emitters and electron-accepting materials via a common intermediate. *Journal of the American Chemical Society*, **2004**, 126, 6987-95	16.4	207
235	Excimers or Emissive On-Chain Defects?. *Macromolecules*, **2003**, 36, 4236-4237	5.5	207
234	Green emission from poly(fluorene)s: The role of oxidation. *Journal of Chemical Physics*, **2002**, 117, 6794-6802	3.5	183
233	Polyfluorenes with Dendron Side Chains as the Active Materials for Polymer Light-Emitting Devices. *Advanced Materials*, **2002**, 14, 1061	24	178
232	Inkjet-Printed Nanocrystal Photodetectors Operating up to 3 μm Wavelengths. *Advanced Materials*, **2007**, 19, 3574-3578	24	163
231	Organic plasmon-emitting diode. *Nature Photonics*, **2008**, 2, 684-687	33.9	151
230	Poly(tetraarylindenofluorene)s: New Stable Blue-Emitting Polymers. *Macromolecules*, **2003**, 36, 8240-8245	5.5	150
229	Phosphorescent organic light-emitting devices: working principle and iridium based emitter materials. *International Journal of Molecular Sciences*, **2008**, 9, 1527-47	6.3	144
228	Optimisation of polyfluorenes for light emitting applications. *Synthetic Metals*, **2001**, 125, 73-80	3.6	126
227	Designed suppression of aggregation in polypyrene: toward high-performance blue-light-emitting diodes. *Advanced Materials*, **2010**, 22, 990-3	24	124
226	Efficient red- and orange-light-emitting diodes realized by excitation energy transfer from blue-light-emitting conjugated polymers. *Physical Review B*, **1997**, 56, 4479-4483	3.3	121

225	Direct Observation of Ultrafast Field-Induced Charge Generation in Ladder-Type Poly(Para-Phenylene). *Physical Review Letters*, **1998**, 81, 3259-3262	7.4	121
224	Excitation energy migration in highly emissive semiconducting polymers. *Chemical Physics Letters*, **2000**, 325, 132-138	2.5	118
223	Core, shell, and surface-optimized dendrimers for blue light-emitting diodes. *Journal of the American Chemical Society*, **2011**, 133, 1301-3	16.4	107
222	Organic Light-Emitting Devices Fabricated from Semiconducting Nanospheres. *Advanced Materials*, **2003**, 15, 800-804	24	106
221	Breakdown of the mirror image symmetry in the optical absorption/emission spectra of oligo(para-phenylene)s. *Journal of Chemical Physics*, **2005**, 122, 54501	3.9	105
220	Interaction of singlet excitons with polarons in wide band-gap organic semiconductors: A quantitative study. *Physical Review B*, **2001**, 64,	3.3	102
219	Direct determination of monolayer MoS2and WSe2exciton binding energies on insulating and metallic substrates. *2D Materials*, **2018**, 5, 025003	5.9	100
218	Inkjet printed surface cell light-emitting devices from a water-based polymer dispersion. *Organic Electronics*, **2008**, 9, 164-170	3.5	99
217	A Direct Route Towards Polymer/Copper Indium Sulfide Nanocomposite Solar Cells. *Advanced Energy Materials*, **2011**, 1, 1046-1050	21.8	97
216	Polytriphenylene dendrimers: a unique design for blue-light-emitting materials. *Angewandte Chemie - International Edition*, **2008**, 47, 8292-6	16.4	97
215	Imprinted Conjugated Polymer Laser. *Advanced Materials*, **2003**, 15, 1165-1167	24	91
214	Intrinsic room-temperature electrophosphorescence from a pi-conjugated polymer. *Physical Review Letters*, **2002**, 89, 167401	7.4	91
213	A Fully Aryl-Substituted Poly(ladder-type pentaphenylene): A Remarkably Stable Blue-Light-Emitting Polymer. *Macromolecules*, **2005**, 38, 9933-9938	5.5	88
212	Efficient blue-light-emitting polymer heterostructure devices: the fabrication of multilayer structures from orthogonal solvents. *Advanced Materials*, **2010**, 22, 2087-91	24	81
211	Electrolyte-gated organic field-effect transistor for selective reversible ion detection. *Advanced Materials*, **2013**, 25, 6895-9	24	78
210	Organic non-volatile resistive photo-switches for flexible image detector arrays. *Advanced Materials* , **2015**, 27, 1048-52	24	76
209	Bis(carbazolyl) derivatives of pyrene and tetrahydropyrene: synthesis, structures, optical properties, electrochemistry, and electroluminescence. *Journal of Materials Chemistry C*, **2013**, 1, 1638	7.1	72
208	Blue-Emitting Carbon- and Nitrogen-Bridged Poly(ladder-type tetraphenylene)s. *Chemistry of Materials*, **2006**, 18, 2879-2885	9.6	70

207	Emission properties of pristine and oxidatively degraded polyfluorene type polymers. *Physica Status Solidi A*, **2004**, 201, 1132-1151		66
206	Efficient full-colour electroluminescence and stimulated emission with polyphenylenes. *Synthetic Metals*, **1997**, 91, 41-47	3.6	58
205	8-Quinolinolates as Ligands for Luminescent Cyclometalated Iridium Complexes. *Chemistry of Materials*, **2007**, 19, 1209-1211	9.6	56
204	The Influence of the Phase Morphology on the Optoelectronic Properties of Light-Emitting Electrochemical Cells. *Advanced Functional Materials*, **2004**, 14, 441-450	15.6	55
203	Poly(2,7-phenanthrylene)s and Poly(3,6-phenanthrylene)s as Polyphenylene and Poly(phenylenevinylene) Analogues. *Macromolecules*, **2006**, 39, 5213-5221	5.5	53
202	Photovoltaic properties of thin film heterojunctions with cupric oxide absorber. *Journal of Renewable and Sustainable Energy*, **2013**, 5, 011205	2.5	52
201	Localized triplet excitations and the effect of photo-oxidation in ladder-type poly(p-phenylene) and oligo(p-phenylene). *Physical Review B*, **2000**, 61, 10807-10814	3.3	52
200	Unravelling the nature of unipolar resistance switching in organic devices by utilizing the photovoltaic effect. *Advanced Materials*, **2014**, 26, 2508-13	24	48
199	Ketonic Defects in Ladder-type Poly(p-phenylene)s. *Chemistry of Materials*, **2004**, 16, 4667-4674	9.6	47
198	Bright Blue Solution Processed Triple-Layer Polymer Light-Emitting Diodes Realized by Thermal Layer Stabilization and Orthogonal Solvents. *Advanced Functional Materials*, **2013**, 23, 4897-4905	15.6	45
197	Direct evidence for singlet-triplet exciton annihilation in □conjugated polymers. *Physical Review B*, **2002**, 66,	3.3	45
196	Variable tunneling barriers in FEBID based PtC metal-matrix nanocomposites as a transducing element for humidity sensing. *Nanotechnology*, **2013**, 24, 305501	3.4	44
195	Optically written solid-state lasers with broadly tunable mode emission based on improved poly (2,5-dialkoxy-phenylene-vinylene). *Applied Physics Letters*, **2002**, 80, 716-718	3.4	43
194	Low-onset organic blue light emitting devices obtained by better interface control. *Applied Physics Letters*, **1999**, 74, 2909-2911	3.4	41
193	WPLEDs prepared from main-chain fluorene□iridium(III) polymers. *Journal of Materials Chemistry*, **2006**, 16, 4389-4392		39
192	Highly efficient color-stable deep-blue multilayer PLEDs: preventing PEDOT:PSS-induced interface degradation. *Advanced Materials*, **2013**, 25, 4420-4	24	38
191	Inkjet-printed embedded Ag-PEDOT:PSS electrodes with improved light out coupling effects for highly efficient ITO-free blue polymer light emitting diodes. *Applied Physics Letters*, **2017**, 110, 101107	3.4	37
190	Organic field-effect transistor based sensors with sensitive gate dielectrics used for low-concentration ammonia detection. *Organic Electronics*, **2013**, 14, 500-504	3.5	37

189	Progress towards stable blue light-emitting polymers. *Current Applied Physics*, **2004**, 4, 339-342	2.6	37
188	Printing functional nanostructures: a novel route towards nanostructuring of organic electronic devices via soft embossing, inkjet printing and colloidal self assembly of semiconducting polymer nanospheres. *Soft Matter*, **2008**, 4, 2448	3.6	36
187	The role of keto defect sites for the emission properties of polyfluorene-type materials. *Synthetic Metals*, **2003**, 139, 759-763	3.6	36
186	Surface plasmon coupled electroluminescent emission. *Applied Physics Letters*, **2008**, 92, 103304	3.4	35
185	Advances in Inkjet-Printed Metal Halide Perovskite Photovoltaic and Optoelectronic Devices. *Energy Technology*, **2020**, 8, 1900991	3.5	35
184	Simultaneous extraction of charge density dependent mobility and variable contact resistance from thin film transistors. *Applied Physics Letters*, **2014**, 104, 193501	3.4	34
183	Photophysics of excitation energy transfer in highly fluorescent polymers. *Chemical Physics*, **1998**, 227, 99-109	2.3	34
182	Organoiridium Quinolinolate Complexes: Synthesis, Structures, Thermal Stabilities and Photophysical Properties. *European Journal of Inorganic Chemistry*, **2007**, 2007, 4207-4215	2.3	34
181	Micromolding in capillaries and microtransfer printing of silver nanoparticles as soft-lithographic approach for the fabrication of source/drain electrodes in organic field-effect transistors. *Organic Electronics*, **2007**, 8, 389-395	3.5	34
180	Efficient single-layer yellow-light emitting-diodes with ladder-type poly(p-phenylene)/poly(decyl-thiophene) blends. *Solid State Communications*, **1999**, 109, 455-459	1.6	33
179	Ultrafast energy-transfer dynamics in a blend of electroluminescent conjugated polymers. *Chemical Physics Letters*, **1998**, 288, 561-566	2.5	32
178	Molecular triangles: synthesis, self-assembly, and blue emission of cyclo-7,10-tris-triphenylenyl macrocycles. *Chemistry - an Asian Journal*, **2011**, 6, 3001-10	4.5	31
177	Charged defects in highly emissive organic wide-band-gap semiconductors. *Applied Physics Letters*, **2000**, 76, 2083-2085	3.4	31
176	Direct observation of conductive filament formation in Alq3 based organic resistive memories. *Journal of Applied Physics*, **2015**, 118, 075501	2.5	30
175	Metal particle-free inks for printed flexible electronics. *Journal of Materials Chemistry C*, **2019**, 7, 15098-15117	7.1	30
174	Inkjet printed polymer light-emitting devices fabricated by thermal embedding of semiconducting polymer nanospheres in an inert matrix. *Applied Physics Letters*, **2008**, 92, 183305	3.4	29
173	Tetraaryl pyrenes: photophysical properties, computational studies, crystal structures, and application in OLEDs. *Journal of Materials Chemistry C*, **2016**, 4, 3041-3058	7.1	28
172	Integrated catheter system for continuous glucose measurement and simultaneous insulin infusion. *Biosensors and Bioelectronics*, **2015**, 64, 102-10	11.8	28

171	Defect chemistry of polyfluorenes: identification of the origin of "interface defects" in polyfluorene based light-emitting devices. *Chemical Communications*, **2008**, 5170-2	5.8	28
170	A planar waveguide optical sensor employing simple light coupling. *Analyst, The*, **2009**, 134, 1544-7	5	27
169	Identification of Emissive Interface-Related Defects in Polyfluorene-Based Light Emitting Devices. *Japanese Journal of Applied Physics*, **2004**, 43, L891-L893	1.4	27
168	Long lived photoexcitation dynamics in a dendronically substituted poly(fluorene). *Journal of Chemical Physics*, **2003**, 119, 6904-6910	3.9	27
167	Comparison of thermal and electrical degradation effects in polyfluorenes. *Synthetic Metals*, **2003**, 139, 855-858	3.6	25
166	Nanocrystalline Ga2O3 films deposited by spray pyrolysis from water-based solutions on glass and TCO substrates. *Journal of Materials Chemistry C*, **2019**, 7, 69-77	7.1	24
165	Properties of transparent and conductive Al:ZnO/Au/Al:ZnO multilayers on flexible PET substrates. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2015**, 200, 84-92	3.1	23
164	Metal sulfide□polymer nanocomposite thin films prepared by a direct formation route for photovoltaic applications. *Thin Solid Films*, **2011**, 519, 4201-4206	2.2	23
163	Efficient color tuning (blue, red-orange, white) of light emitting diodes by excitation energy transfer. *Optical Materials*, **1998**, 9, 183-187	3.3	23
162	Intrinsic electrochemical doping in blue light emitting polymer devices utilizing a water soluble anionic conjugated polymer. *Organic Electronics*, **2007**, 8, 791-795	3.5	23
161	A heterotriangulene polymer for air-stable organic field-effect transistors. *Polymer Chemistry*, **2013**, 4, 5337	4.9	22
160	Comprehensive photophysical studies of polyfluorenes containing on-chain emissive defects. *Physical Review B*, **2005**, 72,	3.3	22
159	Multidiffractive Broadband Plasmonic Absorber. *Advanced Optical Materials*, **2016**, 4, 435-443	8.1	22
158	Dynamic Photoswitching of Electron Energy Levels at Hybrid ZnO/Organic Photochromic Molecule Junctions. *Advanced Functional Materials*, **2018**, 28, 1800716	15.6	22
157	Polymer interlayers on flexible PET substrates enabling ultra-high performance, ITO-free dielectric/metal/dielectric transparent electrode. *Materials and Design*, **2019**, 168, 107663	8.1	21
156	Finally, inkjet-printed metal halide perovskite LEDs □utilizing seed crystal templating of salty PEDOT:PSS. *Materials Horizons*, **2020**, 7, 1773-1781	14.4	20
155	An investigation on focused electron/ion beam induced degradation mechanisms of conjugated polymers. *Physical Chemistry Chemical Physics*, **2011**, 13, 20235-40	3.6	20
154	Molecular Origin of the Temperature-Dependent Energy Migration in a Rigid-Rod Ladder-Phenylene Molecular Host. *Advanced Materials*, **2006**, 18, 310-314	24	20

153	Photophysics of poly(fluorenes) with dendronic side chains. *Synthetic Metals*, **2003**, 139, 847-849	3.6	20
152	Monotonic and cyclic mechanical reliability of metallization lines on polymer substrates. *Journal of Materials Research*, **2017**, 32, 1760-1769	2.5	19
151	Printed Copper Nanoparticle Metal Grids for Cost-Effective ITO-Free Solution Processed Solar Cells. *Solar Rrl*, **2018**, 2, 1700192	7.1	19
150	The effect of bending loading conditions on the reliability of inkjet printed and evaporated silver metallization on polymer substrates. *Microelectronics Reliability*, **2016**, 56, 109-113	1.2	19
149	Deep blue polymer light emitting diodes based on easy to synthesize, non-aggregating polypyrene. *Optics Express*, **2011**, 19 Suppl 6, A1281-93	3.3	19
148	A novel concept for humidity compensated sub-ppm ammonia detection. *Sensors and Actuators B: Chemical*, **2010**, 145, 181-184	8.5	19
147	Optically Active Chemical Defects in Polyfluorene-Type Polymers and Devices. *Advances in Polymer Science*, **2008**, 273-292	1.3	19
146	White Light Emission from a Polymer-Macromolecule Blend System Due to Energy and Charge Transfer. *Japanese Journal of Applied Physics*, **2000**, 39, L760-L762	1.4	19
145	High performance indium tin oxide-free solution-processed organic light emitting diodes based on inkjet-printed fine silver grid lines. *Flexible and Printed Electronics*, **2016**, 1, 035004	3.1	19
144	Truly Low Temperature Sintering of Printed Copper Ink Using Formic Acid. *Advanced Materials Technologies*, **2018**, 3, 1800146	6.8	19
143	Relationship between mechanical damage and electrical degradation in polymer-supported metal films subjected to cyclic loading. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 662, 157-161	5.3	18
142	The Effect of Protonation on the Optical Properties of Conjugated Fluorene□Pyridine Copolymers. *Macromolecular Chemistry and Physics*, **2008**, 209, 2122-2134	2.6	18
141	The influence of keto defects on photoexcitation dynamics in polyfluorene. *Synthetic Metals*, **2003**, 139, 851-854	3.6	18
140	Chemical Analysis of the Interface in Bulk-Heterojunction Solar Cells by X-ray Photoelectron Spectroscopy Depth Profiling. *ACS Applied Materials & Interfaces*, **2017**, 9, 3842-3848	9.5	17
139	Design and Development of Oleoresins Rich in Carotenoids Coated Microbeads. *Coatings*, **2019**, 9, 235	2.9	17
138	Inkjet-Printed Resistive Switching Memory Based on Organic Dielectric Materials: From Single Elements to Array Technology. *Advanced Electronic Materials*, **2015**, 1, 1400003	6.4	17
137	Core-and-surface-functionalized polyphenylene dendrimers for solution-processed, pure-blue light-emitting diodes through surface-to-core energy transfer. *Macromolecular Rapid Communications*, **2014**, 35, 1931-6	4.8	17
136	Dynamics of higher photoexcited states in m-LPPP probed with sub-20 fs time resolution. *Chemical Physics Letters*, **2004**, 384, 251-255	2.5	17

135	Excited-state localization effects in alternating meta- and para-linked poly(phenylene-vinylene)s. *Chemical Physics*, **2004**, 297, 143-151	2.3	17
134	Solution Processed Conjugated Polymer Multilayer Structures for Light Emitting Devices. *Japanese Journal of Applied Physics*, **2005**, 44, 479-484	1.4	17
133	All-solution-processed multilayer polymer/dendrimer light emitting diodes. *Organic Electronics*, **2016**, 35, 164-170	3.5	17
132	SensLED: An Electro-Optical Active Probe for Oxygen Determination. *Advanced Materials*, **2009**, 21, 3483-3487	24	16
131	Structural and Electronic Properties of the First Monolayers of Spin-Cast Poly(fluorene)-Based Conjugated- Polymer Films. *Advanced Functional Materials*, **2007**, 17, 1093-1105	15.6	16
130	The photophysics of organic semiconducting nanospheres: a comprehensive study. *Chemical Physics Letters*, **2004**, 389, 7-13	2.5	16
129	Dynamically Switching the Electronic and Electrostatic Properties of Indium Tin Oxide Electrodes with Photochromic Monolayers: Toward Photoswitchable Optoelectronic Devices. *ACS Applied Nano Materials*, **2019**, 2, 1102-1110	5.6	15
128	Hydrogen ion-selective electrolyte-gated organic field-effect transistor for pH sensing. *Applied Physics Letters*, **2014**, 104, 193305	3.4	15
127	Versatile and Scalable Strategy To Grow Sol-Gel Derived 2H-MoS Thin Films with Superior Electronic Properties: A Memristive Case. *ACS Applied Materials & Interfaces*, **2018**, 10, 34392-34400	9.5	15
126	Excited-State Charge Transfer Enabling MoS2/Phthalocyanine Photodetectors with Extended Spectral Sensitivity. *Journal of Physical Chemistry C*, **2020**, 124, 2837-2843	3.8	14
125	Excitation energy migration assisted processes in conjugated polymers. *Synthetic Metals*, **2004**, 141, 211-218	3.9	14
124	An Organic Borate Salt with Superior -Doping Capability for Organic Semiconductors. *Advanced Science*, **2020**, 7, 2001322	13.6	13
123	A silver inkjet printed ferrite NFC antenna **2014**,		13
122	Self-absorption effects in a LEC with low Stokes shift. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 13, 1251-1254	3	13
121	Materials for polymer electronics applications semiconducting polymer thin films and nanoparticles. *Macromolecular Symposia*, **2004**, 212, 83-92	0.8	13
120	Kinetics of singlet and triplet excitons in a wide-band-gap copolymer. *Physical Review B*, **2000**, 61, 1859-1865	3.7	13
119	Efficient single layer yellow light emitting diodes made of a blend of a ladder-type poly(p-phenylene) and polyalkylthiophene. *Optical Materials*, **1999**, 12, 311-314	3.3	13
118	Influence of the bridging atom in fluorene analogue low-bandgap polymers on photophysical and morphological properties of copper indium sulfide/polymer nanocomposite solar cells. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 1400-1410	2.6	12

117	The Influence of UV Irradiation on Ketonic Defect Emission in Fluorene-Based Copolymers. *Advanced Functional Materials*, **2008**, 18, 2480-2488	15.6	12
116	Elimination of defect-induced color instabilities in polymer light-emitting devices. *Journal of Applied Physics*, **2005**, 97, 063508	2.5	12
115	Ion beam degradation analysis of poly(3-hexylthiophene) (P3HT): can cryo-FIB minimize irradiation damage?. *Physical Chemistry Chemical Physics*, **2009**, 11, 5130-3	3.6	11
114	Direct Sub-Micrometer-Patterning of Conjugated Polymers and Polymer Light-Emitting Devices by Electron Beam Lithography. *Macromolecular Chemistry and Physics*, **2010**, 211, 1402-1407	2.6	11
113	Tuning the mechanical flexibility of organic molecular crystals by polymorphism for flexible optical waveguides. *CrystEngComm*, **2021**, 23, 5815-5825	3.3	11
112	Bis(tercarbazole) pyrene and tetrahydropyrene derivatives: photophysical and electrochemical properties, theoretical modeling, and OLEDs. *Journal of Materials Chemistry C*, **2019**, 7, 5009-5018	7.1	10
111	Switching the Electronic Properties of ZnO Surfaces with Negative T-Type Photochromic Pyridyl-dihydropyrene Layers and Impact of Fermi Level Pinning. *Advanced Materials Interfaces*, **2019**, 6, 1900211	4.6	10
110	Effect of thermal annealing in vacuum on the photovoltaic properties of electrodeposited Cu2O-absorber solar cell. *EPJ Photovoltaics*, **2014**, 5, 50301	0.7	10
109	Synthesis and Photophysical Properties of 3,6-Diphenyl-9-hexyl-9H-carbazole Derivatives Bearing Electron Withdrawing Groups. *Monatshefte F□ Chemie*, **2008**, 139, 223-231	1.4	10
108	Optoelectronic devices made from multilayer and molecularly doped organic layers **1999**,		10
107	Thermally Activated Gold-Mediated Transition Metal Dichalcogenide Exfoliation and a Unique Gold-Mediated Transfer. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000408	2.5	10
106	Blue Light Emitting Polyphenylene Dendrimers with Bipolar Charge Transport Moieties. *Molecules*, **2016**, 21,	4.8	10
105	Pulsed thermal deposition of binary and ternary transition metal dichalcogenide monolayers and heterostructures. *Applied Physics Letters*, **2019**, 114, 162101	3.4	9
104	Role of Hybrid Charge Transfer States in the Charge Generation at ZnMgO/P3HT Heterojunctions. *Journal of Physical Chemistry C*, **2017**, 121, 21955-21961	3.8	9
103	Resistive switching based on filaments in metal/PMMA/metal thin film devices. *Japanese Journal of Applied Physics*, **2015**, 54, 120301	1.4	9
102	Effect of AZO Substrates on Self-Seeded Electrochemical Growth of Vertically Aligned ZnO Nanorod Arrays and Their Optical Properties. *Journal of Nanomaterials*, **2012**, 2012, 1-14	3.2	9
101	A Comparative Study of the Photophysics in Polyfluorenes and Polyfluorenes with Polyphenylene Dendron Sidechains. *Materials Research Society Symposia Proceedings*, **2001**, 665, 1		9
100	Conduction mechanisms in epitaxial NiO/Graphene gas sensors. *Sensors and Actuators B: Chemical*, **2020**, 325, 128797	8.5	9

99	2D-MoS2 goes 3D: transferring optoelectronic properties of 2D MoS2 to a large-area thin film. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	9
98	Implementing Inkjet-Printed Transparent Conductive Electrodes in Solution-Processed Organic Electronics. *Advanced Materials Technologies*, **2019**, 4, 1800474	6.8	9
97	Modulating the luminance of organic light-emitting diodes via optical stimulation of a photochromic molecular monolayer at transparent oxide electrode. *Nanoscale*, **2020**, 12, 5444-5451	7.7	8
96	In-situ dispersion of ZrO2 nano-particles coated with pentacene. *Physica Status Solidi - Rapid Research Letters*, **2008**, 2, 203-205	2.5	8
95	Efficient full-color electroluminescence and stimulated emission with polyphenylenes **1998**,		8
94	One-pot synthesis of a stable and cost-effective silver particle-free ink for inkjet-printed flexible electronics. *Journal of Materials Chemistry C*, **2020**, 8, 16443-16451	7.1	8
93	Gentle plasma process for embedded silver-nanowire flexible transparent electrodes on temperature-sensitive polymer substrates. *Nanotechnology*, **2020**, 31, 365303	3.4	8
92	A paper based, all organic, reference-electrode-free ion sensing platform. *Journal of Materials Chemistry B*, **2015**, 3, 5095-5102	7.3	7
91	The single-port concept: combining optical glucose measurement with insulin infusion. *Acta Diabetologica*, **2014**, 51, 883-6	3.9	7
90	Aluminum-nanodisc-induced collective lattice resonances: Controlling the light extraction in organic light emitting diodes. *Applied Physics Letters*, **2017**, 111, 173301	3.4	7
89	Note: On the deconvolution of Kelvin probe force microscopy data. *Review of Scientific Instruments*, **2010**, 81, 056107	1.7	7
88	Synthesis and optical properties of organic semiconductor: zirconia nanocomposites. *Journal of Nanoparticle Research*, **2010**, 12, 2541-2551	2.3	7
87	Unraveling Reversible Quenching Processes of O2, N2, Ar, and H2O in Metal Halide Perovskites at Moderate Photon Flux Densities. *Advanced Optical Materials*, **2020**, 9, 2001317	8.1	7
86	ITO-free OLEDs utilizing inkjet-printed and low temperature plasma-sintered Ag electrodes. *Flexible and Printed Electronics*, **2021**, 6, 015009	3.1	7
85	Structure and electrical properties of nanoparticulate tungsten oxide prepared by microwave plasma synthesis. *Journal of Physics Condensed Matter*, **2011**, 23, 334206	1.8	6
84	Red electrophosphorescent platinum(II) quinolinolate complexes. *Monatshefte F□ Chemie*, **2010**, 141, 847-858	1.4	6
83	Stark spectroscopy of excited-state transitions in a conjugated polymer. *Physical Review Letters*, **2008**, 100, 057401	7.4	6
82	Organic mixed ionic□electronic conductors as active layers in light-emitting electrochemical cells: vibrational spectroscopic, microscopic and electronic characterization. *Solid State Ionics*, **2004**, 169, 161-166	3.3	6

81	Interface and ion-induced optoelectronic effects in thin films of poly(p-phenylene)s functionalised with ion-transporting side chains. *Thin Solid Films*, **2003**, 433, 287-291	2.2	6
80	Singlet exciton quenching by polarons in π-conjugated wide bandgap semiconductors: a combined optical and charge transport study. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2001**, 85, 218-223	3.1	6
79	Solid state effects in the electronic structure of ladder-type poly(p-phenylene)s and oligo(p-phenylene)s. *Synthetic Metals*, **2000**, 111-112, 509-513	3.6	6
78	Fingerprint of Charge Redistribution in the Optical Spectra of Hybrid Inorganic/Organic Semiconductor Interfaces. *Journal of Physical Chemistry C*, **2018**, 122, 12913-12919	3.8	6
77	Up-scalable ITO-free organic light emitting diodes based on embedded inkjet-printed copper grids. *Flexible and Printed Electronics*, **2019**, 4, 025004	3.1	5
76	Recent progress in printed 2/3D electronic devices **2015**,		5
75	Large and continuous tuning of the work function of indium tin oxide using simple mixing of self-assembled monolayers. *Applied Physics Letters*, **2020**, 116, 241603	3.4	5
74	Potential modulations in flatland: near-infrared sensitization of MoS phototransistors by a solvatochromic dye directly tethered to sulfur vacancies. *Scientific Reports*, **2019**, 9, 16682	4.9	5
73	Cryptand based solid-state electrolytes in polymer light-emitting devices. *Applied Physics Letters*, **2007**, 91, 133501	3.4	5
72	The influence of the metal grain size on polymer/metal bilayer wrinkling. *Soft Matter*, **2007**, 3, 713-717	3.6	5
71	The influence of the ion distribution on interfacial effects in oligoether functionalized poly(p-phenylene) based mixed ionic electronic conductors. *Surface and Interface Analysis*, **2004**, 36, 1052-1055	1.5	5
70	Tracking ion mediated changes in the optical properties of a polymeric mixed ionic–electronic conductor: an application for a chemical sensor system. *Synthetic Metals*, **2003**, 139, 613-616	3.6	5
69	Optical characterisation of poly-2,5-diheptyl-1,4-phenylene-alt-2,5-thienylene. *Synthetic Metals*, **2000**, 111-112, 519-522	3.6	5
68	Nonradiative quenching of singlet excitons by polarons in π-conjugated polymers. *Synthetic Metals*, **2001**, 119, 511-514	3.6	5
67	Optically detected magnetic resonance studies of nanostructured PPV-composites. *Optical Materials*, **1999**, 12, 369-372	3.3	5
66	Electric field-assisted femtosecond pump-probe spectroscopy in organic light emitting diodes. *Synthetic Metals*, **1999**, 101, 277-280	3.6	5
65	Adjusting the emission color of organic light-emitting diodes through aluminum nanodisc arrays. *Optical Engineering*, **2017**, 56, 1	1.1	5
64	Gas flow-assisted vacuum drying: identification of a novel process for attaining high-quality perovskite films. *Materials Advances*, **2021**, 2, 5365-5370	3.3	5

63	Comparing low-temperature thermal and plasma sintering processes of a tailored silver particle-free ink. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 6312-6322	2.1	5
62	Depth Profiling of Organic Light-Emitting Diodes by ToF-SIMS Coupled with Wavelet Principal Component Analysis. *ACS Applied Polymer Materials*, **2019**, 1, 1821-1828	4.3	4
61	Rapid Processing of In-Doped ZnO by Spray Pyrolysis from Environment-Friendly Precursor Solutions. *Coatings*, **2019**, 9, 245	2.9	4
60	Simultaneous Effect of Ultraviolet Radiation and Surface Modification on the Work Function and Hole Injection Properties of ZnO Thin Films. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 1900876	1.6	4
59	Monolithically integrated organic resistive switches for luminance and emission color manipulation in polymer light emitting diodes. *Applied Physics Letters*, **2015**, 107, 133301	3.4	4
58	Highly robust electron beam lithography lift-off process using chemically amplified positive tone resist and PEDOT:PSS as a protective coating. *Journal of Micromechanics and Microengineering*, **2014**, 24, 095010	2	4
57	Controlling Polymer Solubility: Polyfluorenes with Branched Semiperfluorinated Side Chains for Polymer Light-Emitting Diodes. *Israel Journal of Chemistry*, **2014**, 54, 736-747	3.4	4
56	Organic field-effect transistors: a combined study on short-channel effects and the influence of substrate pre-treatment on ambient stability **2011**,		4
55	Directly Imprinted Surface-Emitting Distributed Feedback Structure Polymer Sensor Laser Devices for Enhanced Oxygen Sensitivity. *Japanese Journal of Applied Physics*, **2008**, 47, 304-306	1.4	4
54	Photophysics of blue light emitting polymeric mixed ionic-electronic conductors: Photoluminescence and absorption spectroscopy. *Physical Review B*, **2006**, 74,	3.3	4
53	The Raman spectra of different ladder type poly(p-phenylenes) and ladder type oligo(p-phenylenes). *Macromolecular Symposia*, **2002**, 181, 383-388	0.8	4
52	Defect characterization of highly emissive para-phenylene-type molecular films by photoluminescence-detected magnetic resonance and thermally stimulated charge transport. *Synthetic Metals*, **2001**, 116, 81-85	3.6	4
51	Ultrafast Excitation Energy Transfer in a Blend of Light-Emitting Conjugated Polymers. *Synthetic Metals*, **1999**, 101, 306-307	3.6	4
50	Photophysical properties of nanostructured PPV-composites. *Synthetic Metals*, **1999**, 102, 1270-1271	3.6	4
49	Optimized synthesis of solution-processable crystalline poly(triazine imide) with minimized defects for OLED application. *Angewandte Chemie - International Edition*, **2021**, 61, e202111749	16.4	4
48	Bulky, dendronized iridium complexes and their photoluminescence. *Journal of Materials Chemistry C*, **2019**, 7, 15252-15258	7.1	4
47	In-depth investigation of the charge extraction efficiency for thermally annealed inverted bulk-heterojunction solar cells. *Journal of Applied Physics*, **2019**, 125, 034502	2.5	3
46	Modeling of Filamentary Conduction in Organic Thin Film Memories and Comparison With Experimental Data. *IEEE Nanotechnology Magazine*, **2016**, 15, 60-69	2.6	3

45	Electrolyte-gated organic field-effect transistors for sensing in aqueous media **2013**,		3
44	Dynamics of photoexcitations in highly fluorescent organic guest-host-systems. *Optical Materials*, **1998**, 9, 494-497	3.3	3
43	A detailed study of the photophysics of organic semiconducting nanospheres. *Synthetic Metals*, **2003**, 139, 609-612	3.6	3
42	Photophysical studies on nanostructured PPV-systems. *Synthetic Metals*, **2000**, 111-112, 523-526	3.6	3
41	Excitation energy migration in π-conjugated polymers. *Synthetic Metals*, **2001**, 119, 659-660	3.6	3
40	Using Combinatorial Inkjet Printing for Synthesis and Deposition of Metal Halide Perovskites in Wavelength-Selective Photodetectors. *Advanced Engineering Materials*,2101111	3.5	3
39	Fast sputter deposition of MoOx/metal/MoOx transparent electrodes on glass and PET substrates. *Journal of Materials Science*, **2021**, 56, 9047-9064	4.3	3
38	Utilizing Diels–Alder "click" chemistry to functionalize the organic–organic interface of semiconducting polymers. *Journal of Materials Chemistry C*, **2020**, 8, 3302-3307	7.1	2
37	Imprinted conjugated polymer DFB lasers optimized based on simulation results. *Applied Physics A: Materials Science and Processing*, **2009**, 95, 265-272	2.6	2
36	Integrated self-aligned conjugated polymer fiber laser devices. *Physica Status Solidi - Rapid Research Letters*, **2007**, 1, 202-204	2.5	2
35	Degradation of polyfluorene-type polymers: interface and bulk-related defects **2004**,		2
34	Spectroscopy of conducting and insulating ladder-type poly(para-phenylene) device structures. *Synthetic Metals*, **2001**, 116, 353-356	3.6	2
33	Combinatorial inkjet printing for compositional tuning of metal-halide perovskite thin films. *Journal of Materials Chemistry A*,	13	2
32	Stability evaluation and gate-distance effects on electrolyte-gated organic field-effect transistor based on organic semiconductors **2018**,		2
31	Mechanochemical Syntheses of Isostructural Luminescent Cocrystals of 9-Anthracenecarboxylic Acid with two Dipyridines Coformers. *Crystals*, **2020**, 10, 889	2.3	2
30	High performance organic light-emitting diodes employing ITO-free and flexible TiO /Ag/Al:ZnO electrodes.. *RSC Advances*, **2021**, 11, 17324-17331	3.7	2
29	The Schottky-Mott Rule Expanded for Two-Dimensional Semiconductors: Influence of Substrate Dielectric Screening. *ACS Nano*, **2021**, 15, 14794-14803	16.7	2
28	Non-volatile resistive photo-switches for flexible image detector arrays **2015**,		1

27	CHAPTER 7. Solution Processed Multilayer Organic Light Emitting Diodes. *RSC Smart Materials*, **2014**, 226-272	0.6	1
26	Ion-selective electrolyte-gated field-effect transistors: prerequisites for proper functioning **2014**,		1
25	Single-port glucose monitoring with simultaneous insulin infusion. *Biomedizinische Technik*, **2013**, 58 Suppl 1,	1.3	1
24	Focus Issue: Organic light-emitting diodes-status quo and current developments. *Optics Express*, **2011**, 19 Suppl 6, A1237-40	3.3	1
23	Organic field-effect transistors applicable for gas and ion detection **2010**,		1
22	Response to Comment on Surface plasmon coupled electroluminescent emission[Appl. Phys. Lett. 93, 266101 (2008)]. *Applied Physics Letters*, **2008**, 93, 266102	3.4	1
21	Electric field effect on energy transfer monitored by bimolecular annihilation. *Physical Review B*, **2008**, 78,	3.3	1
20	Double-excitation dynamics in m-LPPP probed with sub-20 fs time resolution. *Synthetic Metals*, **2003**, 139, 605-607	3.6	1
19	Excitation energy transfer in guest host systems studied by magnetic resonance techniques. *Synthetic Metals*, **1999**, 102, 1077-1078	3.6	1
18	Elastic Flexibility in an Optically Active Naphthalidenimine-Based Single Crystal. *Crystals*, **2021**, 11, 1397	2.3	1
17	Reversible training of waveguide-based AND/OR gates for optically driven artificial neural networks using photochromic molecules. *Journal Physics D: Applied Physics*, **2022**, 55, 044002	3	1
16	Implementation of Flexible Embedded Nanowire Electrodes in Organic Light-Emitting Diodes. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000305	2.5	1
15	Using Active Surface Plasmons in a Multibit Optical Storage Device to Emulate Long-Term Synaptic Plasticity. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 2000354	1.6	1
14	Type-I Energy Level Alignment at the PTCDA-Monolayer MoS Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. *Advanced Science*, **2021**, 8, 2100215	13.6	1
13	Impact of Different Intermediate Layers on the Morphology and Crystallinity of TiO2 Grown on Carbon Nanotubes by Atomic Layer Deposition. *Advanced Materials Interfaces*, **2021**, 8, 2100759	4.6	1
12	Benchmarking Electrolyte-Gated Monolayer MoS2 Field-Effect Transistors in Aqueous Environments. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2100147	2.5	1
11	Organic Synaptic Diodes Based on Polymeric Mixed Ionic-Electronic Conductors. *Advanced Electronic Materials*, **2022**, 8, 2100866	6.4	1
10	Transparent electrodes based on molybdenum titanium oxide with increased water stability for use as hole-transport/hole-injection components. *Journal of Materials Science*, **2022**, 57, 8752-8766	4.3	1

9	Field-assisted femtosecond pump/probe measurements on conjugated systems. *Optical Materials*, **1999**, 12, 273-277	3.3	0
8	Self-assembly and photoinduced fabrication of conductive nanographene wires on boron nitride.. *Nature Communications*, **2022**, 13, 442	17.4	0
7	Low Temperature Heating of Silver-Mediated Exfoliation of MoS 2. *Advanced Materials Interfaces*,2200362	4.6	0
6	Colloidal Self-Assembly of Semiconducting Polymer Nanospheres: A Novel Route to Functional Architectures for Organic Electronic Devices **2014**, 371-398		
5	The Origin of the Green Emission Band in Polyfluorene Type Polymers **2006**, 153-181		
4	The Effect of Ion / Electron Irradiation on Polymer Based Organic Optoelectronic Devices. *Microscopy and Microanalysis*, **2006**, 12, 1300-1301	0.5	
3	Excitation energy migration in highly emissive semiconducting polymer blends probed by photoluminescence detected magnetic resonance. *Synthetic Metals*, **2001**, 116, 185-188	3.6	
2	Delayed Fluorescence (DF) and Photoluminescence (PL)-Detected Magnetic Resonance (PLDMR) Studies of Triplet-Triplet (T-T) Annihilation and Other Long-Lived Processes in Conjugated Polymers. *Molecular Crystals and Liquid Crystals*, **2001**, 361, 1-6		
1	Energy Transfer between Cyano-Ether PPV and InGaN/GaN Quantum Wells with Large Piezoelectric Fields. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1800322	1.6	