

# George G Malliaras

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

330 papers	28,410 citations	92 h-index	161 g-index
348 ext. papers	31,737 ext. citations	10 avg, IF	7.38 L-index

#	Paper	IF	Citations
330	Semiconducting Polymers for Neural Applications.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1	14
329	Sensitive and robust chemical detection using an olfactory brain-computer interface. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 195, 113664	11.8	1
328	Organic Bioelectronics <b>2022</b> , 1-26		
327	Prevention of the foreign body response to implantable medical devices by inflammasome inhibition.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2115857119	11.5	1
326	Adhesive cutaneous conducting polymer electrodes. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 021401	17.3	0
325	Highly stable PEDOT:PSS electrochemical transistors. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 073302	3.4	3
324	Biostack: Nontoxic Metabolite Detection from Live Tissue. <i>Advanced Science</i> , <b>2021</b> , 9, e2101711	13.6	3
323	Electrolyte-gated transistors for enhanced performance bioelectronics.. <i>Nature Reviews Methods Primers</i> , <b>2021</b> , 1,		42
322	3D printed biomimetic cochleae and machine learning co-modelling provides clinical informatics for cochlear implant patients. <i>Nature Communications</i> , <b>2021</b> , 12, 6260	17.4	2
321	Foreign Body Reaction to Implanted Biomaterials and Its Impact in Nerve Neuroprosthetics. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 622524	5.8	25
320	Reducing Passive Drug Diffusion from Electrophoretic Drug Delivery Devices through Co-Ion Engineering. <i>Advanced Science</i> , <b>2021</b> , 8, 2003995	13.6	1
319	Microelectrode Arrays for Simultaneous Electrophysiology and Advanced Optical Microscopy. <i>Advanced Science</i> , <b>2021</b> , 8, 2004434	13.6	6
318	Achieving long-term stability of thin-film electrodes for neurostimulation. <i>Acta Biomaterialia</i> , <b>2021</b> , 139, 65-65	10.8	4
317	Conducting Polymer-Ionic Liquid Electrode Arrays for High-Density Surface Electromyography. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100374	10.1	12
316	Electronics with shape actuation for minimally invasive spinal cord stimulation. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	5
315	Electrotherapies for Glioblastoma. <i>Advanced Science</i> , <b>2021</b> , 8, e2100978	13.6	5
314	Electrochemical detection of redox molecules secreted by <i>Pseudomonas aeruginosa</i> - Part 1: Electrochemical signatures of different strains. <i>Bioelectrochemistry</i> , <b>2021</b> , 140, 107747	5.6	2

313	Integration of Organic Electrochemical Transistors with Implantable Probes. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100763	6.8	3
312	Lithography and electrodes <b>2021</b> , 277-307		2
311	An Instrumented Cochlea Model for the Evaluation of Cochlear Implant Electrical Stimulus Spread. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 2281-2288	5	1
310	Materials and Device Considerations in Electrophoretic Drug Delivery Devices. <i>Scientific Reports</i> , <b>2020</b> , 10, 7185	4.9	5
309	Controlling the Neuromorphic Behavior of Organic Electrochemical Transistors by Blending Mixed and Ion Conductors. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2224-2228	4	16
308	Tailoring PEDOT properties for applications in bioelectronics. <i>Materials Science and Engineering Reports</i> , <b>2020</b> , 140, 100546	30.9	71
307	Inflight fiber printing toward array and 3D optoelectronic and sensing architectures. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	29
306	Stability of PEDOT:PSS-Coated Gold Electrodes in Cell Culture Conditions. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900662	6.8	39
305	Hybrid 3D/Inkjet-Printed Organic Neuromorphic Transistors. <i>Advanced Materials Technologies</i> , <b>2020</b> , 2000798	6.8	7
304	Recent advances in neural interfaces-Materials chemistry to clinical translation. <i>MRS Bulletin</i> , <b>2020</b> , 45, 655-668	3.2	13
303	Organic neuromorphic devices: Past, present, and future challenges. <i>MRS Bulletin</i> , <b>2020</b> , 45, 619-630	3.2	30
302	Microfabricated Ion-Selective Transistors with Fast and Super-Nernstian Response. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004790	24	22
301	Electrochemical impedance spectroscopy of human cochleas for modeling cochlear implant electrical stimulus spread. <i>APL Materials</i> , <b>2020</b> , 8, 091102	5.7	3
300	Effect of channel thickness on noise in organic electrochemical transistors. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 073302	3.4	9
299	When Bio Meets Technology: Biohybrid Neural Interfaces. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903182	24	38
298	Monitoring fluorescent calcium signals in neural cells with organic photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9049-9056	7.1	6
297	Electrophoretic Delivery of $\gamma$ -Aminobutyric Acid (GABA) into Epileptic Focus Prevents Seizures in Mice. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	2
296	Functional Connectivity of Organic Neuromorphic Devices by Global Voltage Oscillations. <i>Advanced Intelligent Systems</i> , <b>2019</b> , 1, 1900013	6	19

295	Epidermal electrophysiology at scale. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 165-166	19	1
294	Conjugated Polymers for Assessing and Controlling Biological Functions. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806712	24	98
293	Developing Next-generation Brain Sensing Technologies - A Review. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19,	4	9
292	Ionic Hydrogel for Accelerated Dopamine Delivery via Retrodialysis. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7080-7084	9.6	12
291	Impact of contact overlap on transconductance and noise in organic electrochemical transistors. <i>Flexible and Printed Electronics</i> , <b>2019</b> , 4, 044003	3.1	26
290	How conducting polymer electrodes operate. <i>Science</i> , <b>2019</b> , 364, 233-234	33.3	81
289	Conductive Poly(3,4-Ethylenedioxythiophene) (PEDOT)-Based Polymers and Their Applications in Bioelectronics <b>2019</b> , 191-218		12
288	Electrically controlled cellular migration on a periodically micropatterned PEDOT:PSS conducting polymer platform. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47029	2.9	8
287	An Electrocardiography Device with an Integrated Microfluidic Ion Pump for Simultaneous Neural Recording and Electrophoretic Drug Delivery In Vivo. <i>Advanced Biology</i> , <b>2019</b> , 3, e1800270	3.5	28
286	Redox-Stability of Alkoxy-BDT Copolymers and their Use for Organic Bioelectronic Devices. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706325	15.6	58
285	Long-term ageing of PEDOT:PSS: wettability Study. <i>Synthetic Metals</i> , <b>2018</b> , 238, 14-21	3.6	16
284	Facile Nanopatterning of PEDOT:PSS Thin Films. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1700344	6.8	8
283	Monitoring Intrinsic Optical Signals in Brain Tissue with Organic Photodetectors. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1700333	6.8	19
282	A Na conducting hydrogel for protection of organic electrochemical transistors. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 2901-2906	7.3	11
281	The Role of the Side Chain on the Performance of N-type Conjugated Polymers in Aqueous Electrolytes. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 2945-2953	9.6	124
280	Emulating homeoplasticity phenomena with organic electrochemical devices. <i>MRS Communications</i> , <b>2018</b> , 8, 493-497	2.7	15
279	DVS-Crosslinked PEDOT:PSS Free-Standing and Textile Electrodes toward Wearable Health Monitoring. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1700322	6.8	51
278	Organic electrochemical transistors. <i>Nature Reviews Materials</i> , <b>2018</b> , 3,	73.3	716

277	High-Performance Vertical Organic Electrochemical Transistors. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705031	24	64
276	Development and Translation of PEDOT:PSS Microelectrodes for Intraoperative Monitoring. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1700232	15.6	66
275	Conducting Polymer Scaffolds Based on Poly(3,4-ethylenedioxythiophene) and Xanthan Gum for Live-Cell Monitoring. <i>ACS Omega</i> , <b>2018</b> , 3, 7424-7431	3.9	42
274	Organic electronics for neuromorphic computing. <i>Nature Electronics</i> , <b>2018</b> , 1, 386-397	28.4	393
273	Fully printed all-polymer tattoo/textile electronics for electromyography. <i>Flexible and Printed Electronics</i> , <b>2018</b> , 3, 034004	3.1	35
272	Conjugated Polymers in Bioelectronics. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 1368-1376	24.3	235
271	Multimodal Characterization of Neural Networks Using Highly Transparent Electrode Arrays. <i>ENeuro</i> , <b>2018</b> , 5,	3.9	9
270	Smaller Counter Cation for Higher Transconductance in Anionic Conjugated Polyelectrolytes. <i>Macromolecular Chemistry and Physics</i> , <b>2018</b> , 219, 1700374	2.6	17
269	Light sensors and opto-logic gates based on organic electrochemical transistors. <i>Materials Horizons</i> , <b>2018</b> , 5, 93-98	14.4	15
268	Neurospheres on Patterned PEDOT:PSS Microelectrode Arrays Enhance Electrophysiology Recordings. <i>Advanced Biology</i> , <b>2018</b> , 2, 1700164	3.5	18
267	PEDOT:PSS electrodes for acute experimental evaluation of vagus nerve stimulation on rodents. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 4760-4763	0.9	1
266	Biodegradable Polycarbonate longels for Electrophysiology Measurements. <i>Polymers</i> , <b>2018</b> , 10,	4.5	7
265	Numerical Modeling of an Organic Electrochemical Transistor. <i>Biosensors</i> , <b>2018</b> , 8,	5.9	11
264	Nonthrombogenic, stretchable, active multielectrode array for electroanatomical mapping. <i>Science Advances</i> , <b>2018</b> , 4, eaau2426	14.3	89
263	A bilayered PVA/PLGA-bioresorbable shuttle to improve the implantation of flexible neural probes. <i>Journal of Neural Engineering</i> , <b>2018</b> , 15, 065001	5	31
262	Electrophoretic drug delivery for seizure control. <i>Science Advances</i> , <b>2018</b> , 4, eaau1291	14.3	76
261	Inkjet-Printed PEDOT:PSS Electrodes on Paper for Electrocardiography. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601167	10.1	66
260	Lactate Detection in Tumor Cell Cultures Using Organic Transistor Circuits. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605744	24	94

259	Tailoring the Electrochemical and Mechanical Properties of PEDOT:PSS Films for Bioelectronics. <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1600497	3.9	90
258	Fully Printed Electrodes on Stretchable Textiles for Long-Term Electrophysiology. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600251	6.8	67
257	Polyelectrolyte Layer-by-Layer Assembly on Organic Electrochemical Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10427-10434	9.5	32
256	Electrochemical Characterizations of four Main Redox Metabolites of <i>Pseudomonas Aeruginosa</i> . <i>Electroanalysis</i> , <b>2017</b> , 29, 1332-1340	3	12
255	A Microfluidic Ion Pump for In Vivo Drug Delivery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701217	24	72
254	Low-Temperature Cross-Linking of PEDOT:PSS Films Using Divinylsulfone. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 18254-18262	9.5	61
253	Impedance Spectroscopy of Spin-Cast and Electrochemically Deposited PEDOT:PSS Films on Microfabricated Electrodes with Various Areas. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2321-2327	4.3	52
252	Neuromorphic device architectures with global connectivity through electrolyte gating. <i>Nature Communications</i> , <b>2017</b> , 8, 15448	17.4	182
251	PEDOT:PSS microelectrode arrays for hippocampal cell culture electrophysiological recordings. <i>MRS Communications</i> , <b>2017</b> , 7, 259-265	2.7	30
250	Next-generation probes, particles, and proteins for neural interfacing. <i>Science Advances</i> , <b>2017</b> , 3, e1601643	14.3	252
249	Conducting Polymer Ionogels Based on PEDOT and Guar Gum. <i>ACS Macro Letters</i> , <b>2017</b> , 6, 473-478	6.6	33
248	Electrowetting on Immersed Conducting Hydrogel. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 9947-9956	5.4	5
247	Transparent, conformable, active multielectrode array using organic electrochemical transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10554-10559	11.5	133
246	Fabrication Approaches for Conducting Polymer Devices	2017, 55-89	2
245	Highly porous scaffolds of PEDOT:PSS for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2017</b> , 62, 91-101	10.8	119
244	Influence of disorder on transfer characteristics of organic electrochemical transistors. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 023301	3.4	49
243	Organic transistor platform with integrated microfluidics for in-line multi-parametric cell monitoring. <i>Microsystems and Nanoengineering</i> , <b>2017</b> , 3, 17028	7.7	63
242	Benchmarking organic mixed conductors for transistors. <i>Nature Communications</i> , <b>2017</b> , 8, 1767	17.4	223

241	Referenceless pH Sensor using Organic Electrochemical Transistors. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600141	6.8	48
240	Voltage Amplifier Based on Organic Electrochemical Transistor. <i>Advanced Science</i> , <b>2017</b> , 4, 1600247	13.6	66
239	<b>2017</b> ,		1
238	Simultaneous monitoring of single cell and of micro-organ activity by PEDOT:PSS covered multi-electrode arrays. <i>Materials Science and Engineering C</i> , <b>2017</b> , 81, 84-89	8.3	24
237	Bioelectronic neural pixel: Chemical stimulation and electrical sensing at the same site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 9440-5	11.5	82
236	Autoclave Sterilization of PEDOT:PSS Electrophysiology Devices. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 3094-3098	10.1	37
235	Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays. <i>Advanced Materials</i> , <b>2016</b> , 28, 9722-9728	24	101
234	Microsecond Response in Organic Electrochemical Transistors: Exceeding the Ionic Speed Limit. <i>Advanced Materials</i> , <b>2016</b> , 28, 8398-8404	24	38
233	Electroconductive Hydrogel Based on Functional Poly(Ethylenedioxy Thiophene). <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6080-6088	9.6	81
232	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10252-9	16.4	189
231	Organic Transistor Arrays Integrated with Finger-Powered Microfluidics for Multianalyte Saliva Testing. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2295-302	10.1	117
230	N-type organic electrochemical transistors with stability in water. <i>Nature Communications</i> , <b>2016</b> , 7, 13066	7.4	170
229	Orientation selectivity in a multi-gated organic electrochemical transistor. <i>Scientific Reports</i> , <b>2016</b> , 6, 27007	4.9	63
228	A Disposable paper breathalyzer with an alcohol sensing organic electrochemical transistor. <i>Scientific Reports</i> , <b>2016</b> , 6, 27582	4.9	91
227	Structural control of mixed ionic and electronic transport in conducting polymers. <i>Nature Communications</i> , <b>2016</b> , 7, 11287	17.4	452
226	Nanostructured conducting polymers for stiffness controlled cell adhesion. <i>Nanotechnology</i> , <b>2016</b> , 27, 074001	3.4	11
225	Optical study of electrochromic moving fronts for the investigation of ion transport in conducting polymers. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3942-3947	7.1	27
224	Understanding volumetric capacitance in conducting polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2016</b> , 54, 1433-1436	2.6	128



223	Organic electrochemical transistors based on PEDOT with different anionic polyelectrolyte dopants. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2016</b> , 54, 147-151	2.6	52
222	Wearable Keyboard Using Conducting Polymer Electrodes on Textiles. <i>Advanced Materials</i> , <b>2016</b> , 28, 4485-8	24	130
221	Interfacing Electronic and Ionic Charge Transport in Bioelectronics. <i>ChemElectroChem</i> , <b>2016</b> , 3, 686-688	4.3	49
220	Orientation selectivity with organic photodetectors and an organic electrochemical transistor. <i>AIP Advances</i> , <b>2016</b> , 6, 111307	1.5	28
219	Preface to Special Topic: Adaptive Materials, Devices and Systems towards Unconventional Computing, Sensing, Bioelectronics and Robotics. <i>AIP Advances</i> , <b>2016</b> , 6, 111101	1.5	
218	The rise of plastic bioelectronics. <i>Nature</i> , <b>2016</b> , 540, 379-385	50.4	925
217	Sodium and Potassium Ion Selective Conjugated Polymers for Optical Ion Detection in Solution and Solid State. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 514-523	15.6	41
216	Wettability of PEDOT:PSS films. <i>Soft Matter</i> , <b>2016</b> , 12, 5146-53	3.6	37
215	Controlling the mode of operation of organic transistors through side-chain engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12017-12022	11.5	251
214	ORGANIC BIOELECTRONICS FOR INTERFACING WITH THE BRAIN. <i>Materials and Energy</i> , <b>2016</b> , 345-368		1
213	3D Conducting Polymer Platforms for Electrical Control of Protein Conformation and Cellular Functions. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5040-5048	7.3	96
212	Controlling epileptiform activity with organic electronic ion pumps. <i>Advanced Materials</i> , <b>2015</b> , 27, 3138-44	44	110
211	Cholinium-based ion gels as solid electrolytes for long-term cutaneous electrophysiology. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8942-8948	7.1	37
210	Fully printed metabolite sensor using organic electrochemical transistor <b>2015</b> ,		3
209	NeuroGrid: recording action potentials from the surface of the brain. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 310-5	25.5	538
208	Organic electrochemical transistors for clinical applications. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 142-17	17.1	99
207	A glucose sensor via stable immobilization of the GOx enzyme on an organic transistor using a polymer brush. <i>Journal of Polymer Science Part A</i> , <b>2015</b> , 53, 372-377	2.5	50
206	MRS Communications, Polymers and Soft Matter special issue, Part A The functionality of polymers: fundamentals to technology. <i>MRS Communications</i> , <b>2015</b> , 5, 95-95	2.7	2



205	Screen-printed organic electrochemical transistors for metabolite sensing. <i>MRS Communications</i> , <b>2015</b> , 5, 507-511	2.7	31
204	Direct patterning of organic conductors on knitted textiles for long-term electrocardiography. <i>Scientific Reports</i> , <b>2015</b> , 5, 15003	4.9	112
203	Using white noise to gate organic transistors for dynamic monitoring of cultured cell layers. <i>Scientific Reports</i> , <b>2015</b> , 5, 11613	4.9	28
202	Synaptic plasticity functions in an organic electrochemical transistor. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 263302	3.4	110
201	Preface to the special issue: Biomaterials and Bioelectronics. <i>APL Materials</i> , <b>2015</b> , 3, 014601	5.7	
200	Localized Neuron Stimulation with Organic Electrochemical Transistors on Delaminating Depth Probes. <i>Advanced Materials</i> , <b>2015</b> , 27, 4405-4410	24	104
199	Optical Measurements Revealing Nonuniform Hole Mobility in Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1500189	6.4	36
198	Neuromorphic Functions in PEDOT:PSS Organic Electrochemical Transistors. <i>Advanced Materials</i> , <b>2015</b> , 27, 7176-80	24	316
197	High-performance transistors for bioelectronics through tuning of channel thickness. <i>Science Advances</i> , <b>2015</b> , 1, e1400251	14.3	359
196	Electrochemistry provides a simple way to monitor <i>Pseudomonas aeruginosa</i> metabolites. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 7522-5	0.9	6
195	Detection of fibronectin conformational changes in the extracellular matrix of live cells using plasmonic nanoplates. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 9140-9147	7.3	7
194	The Rise of Organic Bioelectronics. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 679-685	9.6	472
193	A facile biofunctionalisation route for solution processable conducting polymer devices. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 2537-2545	7.3	54
192	Ion-selective organic electrochemical transistors. <i>Advanced Materials</i> , <b>2014</b> , 26, 4803-7	24	103
191	Engineering hydrophilic conducting composites with enhanced ion mobility. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2275-9	3.6	23
190	Photolithographic Patterning of Organic Electronic Materials <b>2014</b> , 399-420		
189	A high transconductance accumulation mode electrochemical transistor. <i>Advanced Materials</i> , <b>2014</b> , 26, 7450-5	24	116
188	Organic bioelectronics: general discussion. <i>Faraday Discussions</i> , <b>2014</b> , 174, 413-28	3.6	4

187	Organic electrochemical transistors as impedance biosensors. <i>MRS Communications</i> , <b>2014</b> , 4, 189-194	2.7	30
186	Ionic liquid gel-assisted electrodes for long-term cutaneous recordings. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1377-80	10.1	62
185	A physical interpretation of impedance at conducting polymer/electrolyte junctions. <i>AIP Advances</i> , <b>2014</b> , 4, 017127	1.5	28
184	Dynamic monitoring of Salmonella typhimurium infection of polarized epithelia using organic transistors. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1053-60	10.1	51
183	Organic electrochemical transistors for BioMEMS applications <b>2014</b> ,		1
182	Conducting polymer thin films as substrates for cell cultures. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1624, 1		
181	Conducting polymer electrodes for electroencephalography. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 490-3	10.1	71
180	PEDOT:gelatin composites mediate brain endothelial cell adhesion. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 3860-3867	7.3	46
179	High transconductance organic electrochemical transistors. <i>Nature Communications</i> , <b>2013</b> , 4, 2133	17.4	464
178	Unexpected interaction between PEDOT and phosphonium ionic liquids. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 11309-13	16.4	28
177	A simple model for ion injection and transport in conducting polymers. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 244501	2.5	34
176	Fibronectin conformation regulates the proangiogenic capability of tumor-associated adipogenic stromal cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2013</b> , 1830, 4314-20	4	32
175	Organic electrochemical transistors with maximum transconductance at zero gate bias. <i>Advanced Materials</i> , <b>2013</b> , 25, 7010-4	24	155
174	In vivo recordings of brain activity using organic transistors. <i>Nature Communications</i> , <b>2013</b> , 4, 1575	17.4	605
173	Easy-to-fabricate conducting polymer microelectrode arrays. <i>Advanced Materials</i> , <b>2013</b> , 25, 2135-9	24	166
172	Organic bioelectronics: a new era for organic electronics. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2013</b> , 1830, 4286-7	4	70
171	Direct measurement of ion mobility in a conducting polymer. <i>Advanced Materials</i> , <b>2013</b> , 25, 4488-93	24	215
170	Bright infrared LEDs based on colloidal quantum-dots. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1509, 1		

169	Organic electrochemical transistor incorporating an ionogel as a solid state electrolyte for lactate sensing. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 4440		203
168	Organic electrochemical transistors monitoring micelle formation. <i>Chemical Science</i> , <b>2012</b> , 3, 3432	9.4	44
167	Spectroscopic and morphological investigation of conjugated photopolymerisable quinquethiophene liquid crystals. <i>Current Applied Physics</i> , <b>2012</b> , 12, e59-e66	2.6	4
166	Measurement of barrier tissue integrity with an organic electrochemical transistor. <i>Advanced Materials</i> , <b>2012</b> , 24, 5919-23	24	133
165	PEDOT:TOS with PEG: a biofunctional surface with improved electronic characteristics. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 19498		39
164	Bright infrared quantum-dot light-emitting diodes through inter-dot spacing control. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 369-73	28.7	363
163	Electrical control of protein conformation. <i>Advanced Materials</i> , <b>2012</b> , 24, 2501-5	24	62
162	Plastic neuronal probes for implantation in cortical and subcortical areas of the rat brain. <i>International Journal of Nanotechnology</i> , <b>2012</b> , 9, 517	1.5	7
161	A survey of electron-deficient pentacenes as acceptors in polymer bulk heterojunction solar cells. <i>Chemical Science</i> , <b>2011</b> , 2, 363-368	9.4	114
160	Orthogonal processing: A new strategy for organic electronics. <i>Chemical Science</i> , <b>2011</b> , 2, 1178	9.4	92
159	Organic electronics on natural cotton fibres. <i>Organic Electronics</i> , <b>2011</b> , 12, 2033-2039	3.5	76
158	Optimization of organic electrochemical transistors for sensor applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2011</b> , 49, 34-39	2.6	60
157	Orthogonal processing and patterning enabled by highly fluorinated light-emitting polymers. <i>Advanced Materials</i> , <b>2011</b> , 23, 735-9	24	35
156	Detection of transmitter release from single living cells using conducting polymer microelectrodes. <i>Advanced Materials</i> , <b>2011</b> , 23, H184-8	24	67
155	Highly conformable conducting polymer electrodes for in vivo recordings. <i>Advanced Materials</i> , <b>2011</b> , 23, H268-72	24	270
154	Isomerically pure electron-deficient anthradithiophenes and their acceptor performance in polymer solar cells. <i>Chemical Communications</i> , <b>2011</b> , 47, 7617-9	5.8	36
153	High speed and high density organic electrochemical transistor arrays. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 163304	3.4	81
152	Room-temperature preparation of crystalline TiO <sub>2</sub> thin films and their applications in polymer/TiO <sub>2</sub> hybrid optoelectronic devices. <i>Organic Electronics</i> , <b>2011</b> , 12, 1073-1079	3.5	16

151	Electrogenerated chemiluminescence from carbon dots. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1284, 131		2
150	Electrochemical transistors with ionic liquids for enzymatic sensing <b>2011</b> ,		1
149	Wearable electrochemical sensors for monitoring performance athletes <b>2011</b> ,		10
148	Fabrication of polymer-based electronic circuits using photolithography. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 183308	3-4	17
147	Effect of the gate electrode on the response of organic electrochemical transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 123304	3-4	107
146	Photoelectrical imaging and characterization of point contacts in pentacene thin-film transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 023308	3-4	8
145	High performance organic transistors: Percolating arrays of nanotubes functionalized with an electron deficient olefin. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 053304	3-4	
144	An electrochemical glucose sensor from an organically modified nanocomposite of viologen and TiO <sub>2</sub> . <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 6869-73	1-3	6
143	Importance of C(2) symmetry for the device performance of a newly synthesized family of fused-ring thiophenes. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2770-2779	9-6	33
142	Semiperfluoroalkyl Polyfluorenes for Orthogonal Processing in Fluorous Solvents. <i>Macromolecules</i> , <b>2010</b> , 43, 1195-1198	5-5	36
141	Orthogonal lithography for organic electronics <b>2010</b> ,		5
140	Organic Electronics at the Interface with Biology. <i>MRS Bulletin</i> , <b>2010</b> , 35, 449-456	3-2	231
139	Electrochemical transistors with ionic liquids for enzymatic sensing. <i>Chemical Communications</i> , <b>2010</b> , 46, 7972-4	5-8	96
138	Solvent vapor annealing of an insoluble molecular semiconductor. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2623		27
137	A Glucose Sensor Based on an Organic Electrochemical Transistor Structure Using a Vapor Polymerized Poly(3,4-ethylenedioxythiophene) Layer. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 01AE10	1-1	19
136	Control of cell migration using a conducting polymer device. <i>Soft Matter</i> , <b>2010</b> , 6, 5138	3-6	50
135	Influence of device geometry on sensor characteristics of planar organic electrochemical transistors. <i>Advanced Materials</i> , <b>2010</b> , 22, 1012-6	24	130
134	Multiplexed protein patterns on a photosensitive hydrophilic polymer matrix. <i>Advanced Materials</i> , <b>2010</b> , 22, 1242-6	24	19

133	Fabrication of high-mobility poly(3-hexylthiophene) transistors at ambient conditions. <i>Organic Electronics</i> , <b>2010</b> , 11, 1507-1510	3.5	6
132	A light-emitting memristor. <i>Organic Electronics</i> , <b>2010</b> , 11, 150-153	3.5	38
131	Lead-salt quantum-dot ionic liquids. <i>Small</i> , <b>2010</b> , 6, 638-41	11	37
130	Organic Electrochemical Transistors for Sensor Applications <b>2010</b> , 163-192		2
129	Degradation of Ir(ppy) <sub>2</sub> (dtb-bpy)PF <sub>6</sub> iMTC OLEDs. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1154, 1		
128	All-plastic electrochemical transistor for glucose sensing using a ferrocene mediator. <i>Sensors</i> , <b>2009</b> , 9, 9896-902	3.8	88
127	Coverage dependent adsorption dynamics in hyperthermal organic thin film growth. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 124701	3.9	29
126	Evolution of the Women in Materials Program: a Collaboration between Simmons College and the Cornell Center for Materials Research. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1233, 1		
125	Hole Injection in a Model Fluorene-Triarylamine Copolymer. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 304-310	15.6	32
124	Orthogonal Patterning of PEDOT:PSS for Organic Electronics using Hydrofluoroether Solvents. <i>Advanced Materials</i> , <b>2009</b> , 21, 2314-2317	24	146
123	Organic thin-film transistors of pentacene films fabricated from a supersonic molecular beam source. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 95, 29-35	2.6	9
122	Alkylsubstituted thienothiophene semiconducting materials: structure-property relationships. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 11930-8	16.4	115
121	Post-deposition reorganization of pentacene films deposited on low-energy surfaces. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5580		59
120	Electrogenerated chemiluminescence from PbS quantum dots. <i>Nano Letters</i> , <b>2009</b> , 9, 789-93	11.5	118
119	PbSe nanocrystal excitonic solar cells. <i>Nano Letters</i> , <b>2009</b> , 9, 3749-55	11.5	333
118	Soluble n-type pentacene derivatives as novel acceptors for organic solar cells. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 3049		97
117	Integration of a surface-directed microfluidic system with an organic electrochemical transistor array for multi-analyte biosensors. <i>Lab on A Chip</i> , <b>2009</b> , 9, 704-8	7.2	68
116	Cross-linkable molecular glasses: low dielectric constant materials patternable in hydrofluoroethers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 2363-70	9.5	25

115	Acid-diffusion behaviour in organic thin films and its effect on patterning. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2986		16
114	Electrical control of cell density gradients on a conducting polymer surface. <i>Chemical Communications</i> , <b>2009</b> , 5278-80	5.8	54
113	High voltage polymer solar cell patterned with photolithography. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5394		13
112	Suppression of metallic conductivity of single-walled carbon nanotubes by cycloaddition reactions. <i>Science</i> , <b>2009</b> , 323, 234-7	33.3	128
111	Orthogonal Processing: A Novel Photolithographic Patterning Method for Organic Electronics. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], <b>2009</b> , 22, 565-569	0.7	23
110	Operating mechanism of light-emitting electrochemical cells. <i>Nature Materials</i> , <b>2008</b> , 7, 168-168	27	44
109	Enzymatic sensing with organic electrochemical transistors. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 116-120		251
108	Dry photolithographic patterning process for organic electronic devices using supercritical carbon dioxide as a solvent. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 3087		39
107	Tetrathienoacene copolymers as high mobility, soluble organic semiconductors. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 13202-3	16.4	166
106	Acid-sensitive semiperfluoroalkyl resorcinarene: an imaging material for organic electronics. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 11564-5	16.4	62
105	Improved Turn-On Times of Light-Emitting Electrochemical Cells. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 388-396	39.6	100
104	Spray-deposited poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) top electrode for organic solar cells. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 193301	3.4	69
103	Enhanced emission from fcc fluorescent photonic crystals. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	11
102	Two-step exciton dissociation in poly(3-hexylthiophene)/fullerene heterojunctions. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 143308	3.4	39
101	Real time monitoring of pentacene growth on SiO <sub>2</sub> from a supersonic source. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 253304	3.4	30
100	Applications of poly(3,4-ethylenedioxythiophene) doped with poly(styrene sulfonic acid) transistors in chemical and biological sensors. <i>Chemical Record</i> , <b>2008</b> , 8, 13-22	6.6	66
99	Hydrofluoroethers as Orthogonal Solvents for the Chemical Processing of Organic Electronic Materials. <i>Advanced Materials</i> , <b>2008</b> , 20, 3481-3484	24	128
98	Flexible, organic light-pen input device with integrated display. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 135, 122-127	8.5	18

97	Electroluminescent devices from ionic transition metal complexes. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 2976-2988		324
96	Observation of intermediate-range order in a nominally amorphous molecular semiconductor film. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 1458-1461		37
95	In situ identification of a luminescence quencher in an organic light-emitting device. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 76-81		35
94	Electrospun light-emitting nanofibers. <i>Nano Letters</i> , <b>2007</b> , 7, 458-63	11.5	125
93	Efficient solution-processed photovoltaic cells based on an anthradithiophene/fullerene blend. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9144-9	16.4	196
92	Synthesis of a Soluble n-Type Cyano Substituted Polythiophene Derivative: A Potential Electron Acceptor in Polymeric Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10732-10740	3.8	46
91	Simple glucose sensors with micromolar sensitivity based on organic electrochemical transistors. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 123, 374-378	8.5	119
90	Photovoltaics from soluble small molecules. <i>Materials Today</i> , <b>2007</b> , 10, 34-41	21.8	356
89	Direct measurement of the electric-field distribution in a light-emitting electrochemical cell. <i>Nature Materials</i> , <b>2007</b> , 6, 894-9	27	256
88	Degradation of hole injection at the contact between a conducting polymer and a fluorene copolymer. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 042116	3.4	8
87	Integrated reactive ion etching to pattern cross-linked hydrophilic polymer structures for protein immobilization. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 144107	3.4	3
86	Degradation in iTMC OLEDs. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1029, 1		
85	Using Atomic Steps to Control Pentacene Crystal Orientation Texture. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 965, 1		
84	Dynamics of bimodal growth in pentacene thin films. <i>Physical Review Letters</i> , <b>2006</b> , 97, 105503	7.4	86
83	Direct 120V, 60Hz operation of an organic light emitting device. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 074502	2.5	44
82	Nondispersive hole transport in a polyfluorene copolymer with a mobility of 0.01cm <sup>2</sup> V <sup>-1</sup> s <sup>-1</sup> . <i>Applied Physics Letters</i> , <b>2006</b> , 89, 172116	3.4	40
81	Growth dynamics of pentacene thin films: Real-time synchrotron x-ray scattering study. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	55
80	Roughness-induced energetic disorder at the metal/organic interface. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	7



79	Using atomic steps to induce texture in polycrystalline pentacene films. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 253116	3.4	21
78	Energetic disorder at the metal-organic semiconductor interface. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	13
77	Gating of an organic transistor through a bilayer lipid membrane with ion channels. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 053505	3.4	93
76	Identification of a quenching species in ruthenium tris-bipyridine electroluminescent devices. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 7761-4	16.4	102
75	Observation of electroluminescence and photovoltaic response in ionic junctions. <i>Science</i> , <b>2006</b> , 313, 1416-9	33.3	76
74	Structure of a pentacene monolayer deposited on SiO <sub>2</sub> : Role of trapped interfacial water. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 093504	2.5	21
73	Transport energy in disordered organic materials. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 387-390	1.3	12
72	Transversal and longitudinal diffusion in polar disordered organic materials. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 391-394	1.3	8
71	Photolithographic patterning of organic electronic materials. <i>Organic Electronics</i> , <b>2006</b> , 7, 22-28	3.5	179
70	Chemical and biological sensors based on organic thin-film transistors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 384, 343-53	4.4	389
69	Improved Turn-on Times of Iridium Electroluminescent Devices by Use of Ionic Liquids. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 3187-3190	9.6	190
68	Green electroluminescence from an ionic iridium complex. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 173506	3.4	116
67	Synthesis and characterization of electron-deficient pentacenes. <i>Organic Letters</i> , <b>2005</b> , 7, 3163-6	6.2	251
66	Addition of a Phosphorescent Dopant in Electroluminescent Devices from Ionic Transition Metal Complexes. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6114-6116	9.6	87
65	An Organic Electronics Primer. <i>Physics Today</i> , <b>2005</b> , 58, 53-58	0.9	316
64	Single-Layer Electroluminescent Devices and Photoinduced Hydrogen Production from an Ionic Iridium(III) Complex. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5712-5719	9.6	706
63	Charge injection in doped organic semiconductors. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 023705	2.5	29
62	Microfluidic gating of an organic electrochemical transistor. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 013503	3.4	60

61	Light Emitting Devices from Ionic Transition Metal Complexes <b>2005</b> , SMB3		1
60	Thickness Dependence of Mobility in Pentacene Thin-Film Transistors. <i>Advanced Materials</i> , <b>2005</b> , 17, 1795-1798	24	288
59	Women in Materials: a Collaborative Effort between Simmons College and the Cornell Center for Materials Research. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 909, 1		
58	Postfabrication annealing of pentacene-based photovoltaic cells. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 6272-6274	3.4	91
57	Temperature dependence of tris(2,2'-bipyridine) ruthenium (II) device characteristics. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 4381-4384	2.5	11
56	Organic light-emitting devices with laminated top contacts. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3675-3677	3.4	55
55	Degradation of Ru( $\text{bpy}$ ) <sub>3</sub> <sup>2+</sup> -based OLEDs. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 846, DD11.11.1		
54	Development of a Compact System for In-situ X-ray Scattering Studies of Organic Thin Film Deposition. <i>AIP Conference Proceedings</i> , <b>2004</b> ,	0	2
53	How to make ohmic contacts to organic semiconductors. <i>ChemPhysChem</i> , <b>2004</b> , 5, 16-25	3.2	251
52	Early stages of pentacene film growth on silicon oxide. <i>Organic Electronics</i> , <b>2004</b> , 5, 257-263	3.5	80
51	Cascaded light-emitting devices based on a ruthenium complex. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4980-4982	3.4	31
50	Pentacene Thin Film Growth. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 4497-4508	9.6	541
49	Structure of pentacene thin films. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4926-4928	3.4	153
48	Contact issues in electroluminescent devices from ruthenium complexes. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 807-809	3.4	48
47	Efficient yellow electroluminescence from a single layer of a cyclometalated iridium complex. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 2763-7	16.4	595
46	A simple poly(3,4-ethylene dioxythiophene)/poly(styrene sulfonic acid) transistor for glucose sensing at neutral pH. <i>Chemical Communications</i> , <b>2004</b> , 1556-7	5.8	174
45	Electroluminescence in Ruthenium(II) Dendrimers $\square$ <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 8130-8133	2.8	54
44	Solid-state electroluminescent devices based on transition metal complexes. <i>Chemical Communications</i> , <b>2003</b> , 2392-9	5.8	311

43	Photophysical properties of tris(bipyridyl)ruthenium(II) thin films and devices. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 2706-2709	3.6	70
42	Charge transport in doped organic semiconductors. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	52
41	Current-Induced Degradation in Polythiophene. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 734, 941		
40	Electroluminescence in ruthenium(II) complexes. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 13624-8	16.4	168
39	Humidity sensors based on pentacene thin-film transistors. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4643-4645	3.4	310
38	Improvement in the Efficiency of Organic Light Emitting Diode Consisting of Copolymer having Hole and Electron Transporting Moieties and CsF as an Injection Material. <i>Molecular Crystals and Liquid Crystals</i> , <b>2002</b> , 377, 77-80	0.5	
37	Modification of Indium Tin Oxide for Improved Hole Injection in Organic Light Emitting Diodes. <i>Advanced Materials</i> , <b>2001</b> , 13, 1234	24	91
36	Space-charge limited current in the single-electron regime. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	9
35	Orientation of pentacene films using surface alignment layers and its influence on thin-film transistor characteristics. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1300-1302	3.4	118
34	Mobility-dependent charge injection into an organic semiconductor. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3867-70	7.4	146
33	Nondispersive electron transport in Alq3. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 2582-2584	3.4	143
32	Silole Derivatives with a High and Non-dispersive Electron Mobility, and a 100 % Photoluminescence Quantum Efficiency. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 665, 1		1
31	Charge transport processes in organic light-emitting devices. <i>Synthetic Metals</i> , <b>2000</b> , 111-112, 289-293	3.6	47
30	Role of CsF on electron injection into a conjugated polymer. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2403-2405	3.4	134
29	Hole limited recombination in polymer light-emitting diodes. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 1510-1513	3.4	63
28	Charge injection and recombination at the metal-organic interface. <i>Chemical Physics Letters</i> , <b>1999</b> , 299, 115-119	2.5	379
27	Numerical simulations of the electrical characteristics and the efficiencies of single-layer organic light emitting diodes. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 7426-7432	2.5	156
26	Temperature- and field-dependent electron and hole mobilities in polymer light-emitting diodes. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 1132-1134	3.4	340

25	The Chemistry, Physics and Engineering of Organic Light-Emitting Diodes <b>1999</b> , 411-461		3
24	Temperature and Field Dependence in Polymer Light Emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 558, 453		
23	The Physics of Organic Light-Emitting Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 558, 499		1
22	Temperature and Field Dependence in Polymer Light Emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 561, 195		
21	Electrical characteristics and efficiency of single-layer organic light-emitting diodes. <i>Physical Review B</i> , <b>1998</b> , 58, R13411-R13414	3.3	542
20	The roles of injection and mobility in organic light emitting diodes. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 5399-5403	2.5	241
19	Photovoltaic measurement of the built-in potential in organic light emitting diodes and photodiodes. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 1583-1587	2.5	194
18	Photonic materials for electroluminescent, laser and photovoltaic devices. <i>Macromolecular Symposia</i> , <b>1998</b> , 125, 99-109	0.8	6
17	Photonic polymers for the devices of the 21st century. <i>Macromolecular Symposia</i> , <b>1997</b> , 121, 27-34	0.8	1
16	Novel Bifunctional Molecule for Photorefractive Materials. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 1407-1413	9.6	20
15	Effect of Plasticization on the Performance of a Photorefractive Polymer. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 16356-16360		30
14	The influence of disorder on the space charge field formation in photorefractive polymers. <i>Journal Physics D: Applied Physics</i> , <b>1996</b> , 29, 2045-2048	3	8
13	Photorefractivity in poly(N-vinylcarbazole)-based polymer composites. <i>Journal of Optics</i> , <b>1996</b> , 5, 631-643		3
12	Holographic time-of-flight measurements of the hole-drift mobility in a photorefractive polymer. <i>Physical Review B</i> , <b>1995</b> , 52, 14324-14327	3.3	23
11	Transient behavior of photorefractive gratings in a polymer. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 455-457	3.4	30
10	Control of charge trapping in a photorefractive polymer. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 1038-1040	3.4	47
9	Tuning of photo- and electroluminescence in alkylated polythiophenes with well-defined regioregularity. <i>Advanced Materials</i> , <b>1994</b> , 6, 132-135	24	143
8	The role of absorbing nonlinear optical chromophores in photorefractive polymers. <i>Advanced Materials</i> , <b>1994</b> , 6, 574-577	24	9

7	Photorefractive polymer composite with net gain and subsecond response at 633 nm. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 262-264	3.4	28
6	Photorefractive polymer materials <b>1993</b> ,		2
5	Tuning of the photo- and electroluminescence in multi-block copolymers of poly[(silanylene)thiophene]s via exciton confinement. <i>Advanced Materials</i> , <b>1993</b> , 5, 721-723	24	132
4	Cell-array biosensors137-154		
3	Correlation between Transient Response and Neuromorphic Behavior in Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> ,2101186	6.4	0
2	Mechanical matching of implant to host minimises foreign body reaction		15
1	Printed Organic Electrochemical Transistors for Detecting Nutrients in Whole Plant Sap. <i>Advanced Electronic Materials</i> ,2100853	6.4	1