

George G Malliaras

List of Publications by Citations

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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	The rise of plastic bioelectronics. <i>Nature</i> , 2016 , 540, 379-385	50.4	925
329	Organic electrochemical transistors. <i>Nature Reviews Materials</i> , 2018 , 3,	73.3	716
328	Single-Layer Electroluminescent Devices and Photoinduced Hydrogen Production from an Ionic Iridium(III) Complex. <i>Chemistry of Materials</i> , 2005 , 17, 5712-5719	9.6	706
327	In vivo recordings of brain activity using organic transistors. <i>Nature Communications</i> , 2013 , 4, 1575	17.4	605
326	Efficient yellow electroluminescence from a single layer of a cyclometalated iridium complex. <i>Journal of the American Chemical Society</i> , 2004 , 126, 2763-7	16.4	595
325	Electrical characteristics and efficiency of single-layer organic light-emitting diodes. <i>Physical Review B</i> , 1998 , 58, R13411-R13414	3.3	542
324	Pentacene Thin Film Growth. <i>Chemistry of Materials</i> , 2004 , 16, 4497-4508	9.6	541
323	NeuroGrid: recording action potentials from the surface of the brain. <i>Nature Neuroscience</i> , 2015 , 18, 310-5	25.5	538
322	The Rise of Organic Bioelectronics. <i>Chemistry of Materials</i> , 2014 , 26, 679-685	9.6	472
321	High transconductance organic electrochemical transistors. <i>Nature Communications</i> , 2013 , 4, 2133	17.4	464
320	Structural control of mixed ionic and electronic transport in conducting polymers. <i>Nature Communications</i> , 2016 , 7, 11287	17.4	452
319	Organic electronics for neuromorphic computing. <i>Nature Electronics</i> , 2018 , 1, 386-397	28.4	393
318	Chemical and biological sensors based on organic thin-film transistors. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 343-53	4.4	389
317	Charge injection and recombination at the metal-organic interface. <i>Chemical Physics Letters</i> , 1999 , 299, 115-119	2.5	379
316	Bright infrared quantum-dot light-emitting diodes through inter-dot spacing control. <i>Nature Nanotechnology</i> , 2012 , 7, 369-73	28.7	363
315	High-performance transistors for bioelectronics through tuning of channel thickness. <i>Science Advances</i> , 2015 , 1, e1400251	14.3	359
314	Photovoltaics from soluble small molecules. <i>Materials Today</i> , 2007 , 10, 34-41	21.8	356

313	Temperature- and field-dependent electron and hole mobilities in polymer light-emitting diodes. <i>Applied Physics Letters</i> , 1999 , 74, 1132-1134	3.4	340
312	PbSe nanocrystal excitonic solar cells. <i>Nano Letters</i> , 2009 , 9, 3749-55	11.5	333
311	Electroluminescent devices from ionic transition metal complexes. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2976-2988		324
310	Neuromorphic Functions in PEDOT:PSS Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2015 , 27, 7176-80	24	316
309	An Organic Electronics Primer. <i>Physics Today</i> , 2005 , 58, 53-58	0.9	316
308	Solid-state electroluminescent devices based on transition metal complexes. <i>Chemical Communications</i> , 2003 , 2392-9	5.8	311
307	Humidity sensors based on pentacene thin-film transistors. <i>Applied Physics Letters</i> , 2002 , 81, 4643-4645	3.4	310
306	Thickness Dependence of Mobility in Pentacene Thin-Film Transistors. <i>Advanced Materials</i> , 2005 , 17, 1795-1798	24	288
305	Highly conformable conducting polymer electrodes for in vivo recordings. <i>Advanced Materials</i> , 2011 , 23, H268-72	24	270
304	Direct measurement of the electric-field distribution in a light-emitting electrochemical cell. <i>Nature Materials</i> , 2007 , 6, 894-9	27	256
303	Next-generation probes, particles, and proteins for neural interfacing. <i>Science Advances</i> , 2017 , 3, e1601649	4.3	252
302	Enzymatic sensing with organic electrochemical transistors. <i>Journal of Materials Chemistry</i> , 2008 , 18, 116-120		251
301	Synthesis and characterization of electron-deficient pentacenes. <i>Organic Letters</i> , 2005 , 7, 3163-6	6.2	251
300	How to make ohmic contacts to organic semiconductors. <i>ChemPhysChem</i> , 2004 , 5, 16-25	3.2	251
299	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> , 2016 , 113, 12017-12022	11.5	251
298	The roles of injection and mobility in organic light emitting diodes. <i>Journal of Applied Physics</i> , 1998 , 83, 5399-5403	2.5	241
297	Conjugated Polymers in Bioelectronics. <i>Accounts of Chemical Research</i> , 2018 , 51, 1368-1376	24.3	235
296	Organic Electronics at the Interface with Biology. <i>MRS Bulletin</i> , 2010 , 35, 449-456	3.2	231

295	Benchmarking organic mixed conductors for transistors. <i>Nature Communications</i> , 2017 , 8, 1767	17.4	223
294	Direct measurement of ion mobility in a conducting polymer. <i>Advanced Materials</i> , 2013 , 25, 4488-93	24	215
293	Organic electrochemical transistor incorporating an ionogel as a solid state electrolyte for lactate sensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4440		203
292	Efficient solution-processed photovoltaic cells based on an anthradithiophene/fullerene blend. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9144-9	16.4	196
291	Photovoltaic measurement of the built-in potential in organic light emitting diodes and photodiodes. <i>Journal of Applied Physics</i> , 1998 , 84, 1583-1587	2.5	194
290	Improved Turn-on Times of Iridium Electroluminescent Devices by Use of Ionic Liquids. <i>Chemistry of Materials</i> , 2005 , 17, 3187-3190	9.6	190
289	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10252-9	16.4	189
288	Neuromorphic device architectures with global connectivity through electrolyte gating. <i>Nature Communications</i> , 2017 , 8, 15448	17.4	182
287	Photolithographic patterning of organic electronic materials. <i>Organic Electronics</i> , 2006 , 7, 22-28	3.5	179
286	A simple poly(3,4-ethylene dioxythiophene)/poly(styrene sulfonic acid) transistor for glucose sensing at neutral pH. <i>Chemical Communications</i> , 2004 , 1556-7	5.8	174
285	N-type organic electrochemical transistors with stability in water. <i>Nature Communications</i> , 2016 , 7, 13066	7.4	170
284	Electroluminescence in ruthenium(II) complexes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13624-8	16.4	168
283	Easy-to-fabricate conducting polymer microelectrode arrays. <i>Advanced Materials</i> , 2013 , 25, 2135-9	24	166
282	Tetrathienoacene copolymers as high mobility, soluble organic semiconductors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13202-3	16.4	166
281	Numerical simulations of the electrical characteristics and the efficiencies of single-layer organic light emitting diodes. <i>Journal of Applied Physics</i> , 1999 , 85, 7426-7432	2.5	156
280	Organic electrochemical transistors with maximum transconductance at zero gate bias. <i>Advanced Materials</i> , 2013 , 25, 7010-4	24	155
279	Structure of pentacene thin films. <i>Applied Physics Letters</i> , 2004 , 85, 4926-4928	3.4	153
278	Orthogonal Patterning of PEDOT:PSS for Organic Electronics using Hydrofluoroether Solvents. <i>Advanced Materials</i> , 2009 , 21, 2314-2317	24	146

277	Mobility-dependent charge injection into an organic semiconductor. <i>Physical Review Letters</i> , 2001 , 86, 3867-70	7.4	146
276	Nondispersive electron transport in Alq3. <i>Applied Physics Letters</i> , 2001 , 79, 2582-2584	3.4	143
275	Tuning of photo- and electroluminescence in alkylated polythiophenes with well-defined regioregularity. <i>Advanced Materials</i> , 1994 , 6, 132-135	24	143
274	Role of CsF on electron injection into a conjugated polymer. <i>Applied Physics Letters</i> , 2000 , 77, 2403-2405	3.4	134
273	Transparent, conformable, active multielectrode array using organic electrochemical transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10554-10559	11.5	133
272	Measurement of barrier tissue integrity with an organic electrochemical transistor. <i>Advanced Materials</i> , 2012 , 24, 5919-23	24	133
271	Tuning of the photo- and electroluminescence in multi-block copolymers of poly[(silanylene)thiophene]s via exciton confinement. <i>Advanced Materials</i> , 1993 , 5, 721-723	24	132
270	Influence of device geometry on sensor characteristics of planar organic electrochemical transistors. <i>Advanced Materials</i> , 2010 , 22, 1012-6	24	130
269	Wearable Keyboard Using Conducting Polymer Electrodes on Textiles. <i>Advanced Materials</i> , 2016 , 28, 4485-8	24	130
268	Understanding volumetric capacitance in conducting polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1433-1436	2.6	128
267	Suppression of metallic conductivity of single-walled carbon nanotubes by cycloaddition reactions. <i>Science</i> , 2009 , 323, 234-7	33.3	128
266	Hydrofluoroethers as Orthogonal Solvents for the Chemical Processing of Organic Electronic Materials. <i>Advanced Materials</i> , 2008 , 20, 3481-3484	24	128
265	Electrospun light-emitting nanofibers. <i>Nano Letters</i> , 2007 , 7, 458-63	11.5	125
264	The Role of the Side Chain on the Performance of N-type Conjugated Polymers in Aqueous Electrolytes. <i>Chemistry of Materials</i> , 2018 , 30, 2945-2953	9.6	124
263	Highly porous scaffolds of PEDOT:PSS for bone tissue engineering. <i>Acta Biomaterialia</i> , 2017 , 62, 91-101	10.8	119
262	Simple glucose sensors with micromolar sensitivity based on organic electrochemical transistors. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 374-378	8.5	119
261	Electrogenerated chemiluminescence from PbS quantum dots. <i>Nano Letters</i> , 2009 , 9, 789-93	11.5	118
260	Orientation of pentacene films using surface alignment layers and its influence on thin-film transistor characteristics. <i>Applied Physics Letters</i> , 2001 , 79, 1300-1302	3.4	118

259	Organic Transistor Arrays Integrated with Finger-Powered Microfluidics for Multianalyte Saliva Testing. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2295-302	10.1	117
258	A high transconductance accumulation mode electrochemical transistor. <i>Advanced Materials</i> , 2014 , 26, 7450-5	24	116
257	Green electroluminescence from an ionic iridium complex. <i>Applied Physics Letters</i> , 2005 , 86, 173506	3.4	116
256	Alkylsubstituted thienothiophene semiconducting materials: structure-property relationships. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11930-8	16.4	115
255	A survey of electron-deficient pentacenes as acceptors in polymer bulk heterojunction solar cells. <i>Chemical Science</i> , 2011 , 2, 363-368	9.4	114
254	Direct patterning of organic conductors on knitted textiles for long-term electrocardiography. <i>Scientific Reports</i> , 2015 , 5, 15003	4.9	112
253	Controlling epileptiform activity with organic electronic ion pumps. <i>Advanced Materials</i> , 2015 , 27, 3138-44	4.4	110
252	Synaptic plasticity functions in an organic electrochemical transistor. <i>Applied Physics Letters</i> , 2015 , 107, 263302	3.4	110
251	Effect of the gate electrode on the response of organic electrochemical transistors. <i>Applied Physics Letters</i> , 2010 , 97, 123304	3.4	107
250	Localized Neuron Stimulation with Organic Electrochemical Transistors on Delaminating Depth Probes. <i>Advanced Materials</i> , 2015 , 27, 4405-4410	24	104
249	Ion-selective organic electrochemical transistors. <i>Advanced Materials</i> , 2014 , 26, 4803-7	24	103
248	Identification of a quenching species in ruthenium tris-bipyridine electroluminescent devices. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7761-4	16.4	102
247	Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays. <i>Advanced Materials</i> , 2016 , 28, 9722-9728	24	101
246	Improved Turn-On Times of Light-Emitting Electrochemical Cells. <i>Chemistry of Materials</i> , 2008 , 20, 388-396	3.6	100
245	Organic electrochemical transistors for clinical applications. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1421-1427	10.1	99
244	Conjugated Polymers for Assessing and Controlling Biological Functions. <i>Advanced Materials</i> , 2019 , 31, e1806712	24	98
243	Soluble n-type pentacene derivatives as novel acceptors for organic solar cells. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3049		97
242	3D Conducting Polymer Platforms for Electrical Control of Protein Conformation and Cellular Functions. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5040-5048	7.3	96

241	Electrochemical transistors with ionic liquids for enzymatic sensing. <i>Chemical Communications</i> , 2010 , 46, 7972-4	5.8	96
240	Lactate Detection in Tumor Cell Cultures Using Organic Transistor Circuits. <i>Advanced Materials</i> , 2017 , 29, 1605744	24	94
239	Gating of an organic transistor through a bilayer lipid membrane with ion channels. <i>Applied Physics Letters</i> , 2006 , 89, 053505	3.4	93
238	Orthogonal processing: A new strategy for organic electronics. <i>Chemical Science</i> , 2011 , 2, 1178	9.4	92
237	A Disposable paper breathalyzer with an alcohol sensing organic electrochemical transistor. <i>Scientific Reports</i> , 2016 , 6, 27582	4.9	91
236	Postfabrication annealing of pentacene-based photovoltaic cells. <i>Applied Physics Letters</i> , 2004 , 85, 6272-6274	5.4	91
235	Modification of Indium Tin Oxide for Improved Hole Injection in Organic Light Emitting Diodes. <i>Advanced Materials</i> , 2001 , 13, 1234	24	91
234	Tailoring the Electrochemical and Mechanical Properties of PEDOT:PSS Films for Bioelectronics. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600497	3.9	90
233	Nonthrombogenic, stretchable, active multielectrode array for electroanatomical mapping. <i>Science Advances</i> , 2018 , 4, eaau2426	14.3	89
232	All-plastic electrochemical transistor for glucose sensing using a ferrocene mediator. <i>Sensors</i> , 2009 , 9, 9896-902	3.8	88
231	Addition of a Phosphorescent Dopant in Electroluminescent Devices from Ionic Transition Metal Complexes. <i>Chemistry of Materials</i> , 2005 , 17, 6114-6116	9.6	87
230	Dynamics of bimodal growth in pentacene thin films. <i>Physical Review Letters</i> , 2006 , 97, 105503	7.4	86
229	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> , 2016 , 113, 9440-5	11.5	82
228	Electroconductive Hydrogel Based on Functional Poly(Ethylenedioxy Thiophene). <i>Chemistry of Materials</i> , 2016 , 28, 6080-6088	9.6	81
227	High speed and high density organic electrochemical transistor arrays. <i>Applied Physics Letters</i> , 2011 , 99, 163304	3.4	81
226	How conducting polymer electrodes operate. <i>Science</i> , 2019 , 364, 233-234	33.3	81
225	Early stages of pentacene film growth on silicon oxide. <i>Organic Electronics</i> , 2004 , 5, 257-263	3.5	80
224	Organic electronics on natural cotton fibres. <i>Organic Electronics</i> , 2011 , 12, 2033-2039	3.5	76

223	Observation of electroluminescence and photovoltaic response in ionic junctions. <i>Science</i> , 2006 , 313, 1416-9	33.3	76
222	Electrophoretic drug delivery for seizure control. <i>Science Advances</i> , 2018 , 4, eaau1291	14.3	76
221	A Microfluidic Ion Pump for In Vivo Drug Delivery. <i>Advanced Materials</i> , 2017 , 29, 1701217	24	72
220	Tailoring PEDOT properties for applications in bioelectronics. <i>Materials Science and Engineering Reports</i> , 2020 , 140, 100546	30.9	71
219	Conducting polymer electrodes for electroencephalography. <i>Advanced Healthcare Materials</i> , 2014 , 3, 490-3	10.1	71
218	Organic bioelectronics: a new era for organic electronics. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4286-7	4	70
217	Photophysical properties of tris(bipyridyl)ruthenium(II) thin films and devices. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 2706-2709	3.6	70
216	Spray-deposited poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) top electrode for organic solar cells. <i>Applied Physics Letters</i> , 2008 , 93, 193301	3.4	69
215	Integration of a surface-directed microfluidic system with an organic electrochemical transistor array for multi-analyte biosensors. <i>Lab on A Chip</i> , 2009 , 9, 704-8	7.2	68
214	Fully Printed Electrodes on Stretchable Textiles for Long-Term Electrophysiology. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600251	6.8	67
213	Detection of transmitter release from single living cells using conducting polymer microelectrodes. <i>Advanced Materials</i> , 2011 , 23, H184-8	24	67
212	Inkjet-Printed PEDOT:PSS Electrodes on Paper for Electrocardiography. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601167	10.1	66
211	Development and Translation of PEDOT:PSS Microelectrodes for Intraoperative Monitoring. <i>Advanced Functional Materials</i> , 2018 , 28, 1700232	15.6	66
210	Voltage Amplifier Based on Organic Electrochemical Transistor. <i>Advanced Science</i> , 2017 , 4, 1600247	13.6	66
209	Applications of poly(3,4-ethylenedioxythiophene) doped with poly(styrene sulfonic acid) transistors in chemical and biological sensors. <i>Chemical Record</i> , 2008 , 8, 13-22	6.6	66
208	High-Performance Vertical Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2018 , 30, 1705031	24	64
207	Orientation selectivity in a multi-gated organic electrochemical transistor. <i>Scientific Reports</i> , 2016 , 6, 27007	4.9	63
206	Organic transistor platform with integrated microfluidics for in-line multi-parametric cell monitoring. <i>Microsystems and Nanoengineering</i> , 2017 , 3, 17028	7.7	63

205	Hole limited recombination in polymer light-emitting diodes. <i>Applied Physics Letters</i> , 1999 , 74, 1510-1513	3.4	63
204	Ionic liquid gel-assisted electrodes for long-term cutaneous recordings. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1377-80	10.1	62
203	Electrical control of protein conformation. <i>Advanced Materials</i> , 2012 , 24, 2501-5	24	62
202	Acid-sensitive semiperfluoroalkyl resorcinarene: an imaging material for organic electronics. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11564-5	16.4	62
201	Low-Temperature Cross-Linking of PEDOT:PSS Films Using Divinylsulfone. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18254-18262	9.5	61
200	Optimization of organic electrochemical transistors for sensor applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 34-39	2.6	60
199	Microfluidic gating of an organic electrochemical transistor. <i>Applied Physics Letters</i> , 2005 , 87, 013503	3.4	60
198	Post-deposition reorganization of pentacene films deposited on low-energy surfaces. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5580		59
197	Redox-Stability of Alkoxy-BDT Copolymers and their Use for Organic Bioelectronic Devices. <i>Advanced Functional Materials</i> , 2018 , 28, 1706325	15.6	58
196	Growth dynamics of pentacene thin films: Real-time synchrotron x-ray scattering study. <i>Physical Review B</i> , 2006 , 73,	3.3	55
195	Organic light-emitting devices with laminated top contacts. <i>Applied Physics Letters</i> , 2004 , 84, 3675-3677	3.4	55
194	A facile biofunctionalisation route for solution processable conducting polymer devices. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2537-2545	7.3	54
193	Electrical control of cell density gradients on a conducting polymer surface. <i>Chemical Communications</i> , 2009 , 5278-80	5.8	54
192	Electroluminescence in Ruthenium(II) Dendrimers. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 8130-8133	2.8	54
191	Impedance Spectroscopy of Spin-Cast and Electrochemically Deposited PEDOT:PSS Films on Microfabricated Electrodes with Various Areas. <i>ChemElectroChem</i> , 2017 , 4, 2321-2327	4.3	52
190	Charge transport in doped organic semiconductors. <i>Physical Review B</i> , 2003 , 68,	3.3	52
189	Organic electrochemical transistors based on PEDOT with different anionic polyelectrolyte dopants. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 147-151	2.6	52
188	DVS-Crosslinked PEDOT:PSS Free-Standing and Textile Electrodes toward Wearable Health Monitoring. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700322	6.8	51

187	Dynamic monitoring of Salmonella typhimurium infection of polarized epithelia using organic transistors. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1053-60	10.1	51
186	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> , 2015 , 53, 372-377	2.5	50
185	Control of cell migration using a conducting polymer device. <i>Soft Matter</i> , 2010 , 6, 5138	3.6	50
184	Influence of disorder on transfer characteristics of organic electrochemical transistors. <i>Applied Physics Letters</i> , 2017 , 111, 023301	3.4	49
183	Interfacing Electronic and Ionic Charge Transport in Bioelectronics. <i>ChemElectroChem</i> , 2016 , 3, 686-688	4.3	49
182	Referenceless pH Sensor using Organic Electrochemical Transistors. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600141	6.8	48
181	Contact issues in electroluminescent devices from ruthenium complexes. <i>Applied Physics Letters</i> , 2004 , 84, 807-809	3.4	48
180	Charge transport processes in organic light-emitting devices. <i>Synthetic Metals</i> , 2000 , 111-112, 289-293	3.6	47
179	Control of charge trapping in a photorefractive polymer. <i>Applied Physics Letters</i> , 1995 , 66, 1038-1040	3.4	47
178	PEDOT:gelatin composites mediate brain endothelial cell adhesion. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 3860-3867	7.3	46
177	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> , 2007 , 111, 10732-10740	3.8	46
176	Organic electrochemical transistors monitoring micelle formation. <i>Chemical Science</i> , 2012 , 3, 3432	9.4	44
175	Operating mechanism of light-emitting electrochemical cells. <i>Nature Materials</i> , 2008 , 7, 168-168	27	44
174	Direct 120V, 60Hz operation of an organic light emitting device. <i>Journal of Applied Physics</i> , 2006 , 99, 074502	2.5	44
173	Conducting Polymer Scaffolds Based on Poly(3,4-ethylenedioxythiophene) and Xanthan Gum for Live-Cell Monitoring. <i>ACS Omega</i> , 2018 , 3, 7424-7431	3.9	42
172	Electrolyte-gated transistors for enhanced performance bioelectronics.. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		42
171	Sodium and Potassium Ion Selective Conjugated Polymers for Optical Ion Detection in Solution and Solid State. <i>Advanced Functional Materials</i> , 2016 , 26, 514-523	15.6	41
170	Nondispersive hole transport in a polyfluorene copolymer with a mobility of 0.01cm ² V ⁻¹ s ⁻¹ . <i>Applied Physics Letters</i> , 2006 , 89, 172116	3.4	40

169	PEDOT:TOS with PEG: a biofunctional surface with improved electronic characteristics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19498		39
168	Dry photolithographic patterning process for organic electronic devices using supercritical carbon dioxide as a solvent. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3087		39
167	Two-step exciton dissociation in poly(3-hexylthiophene)/fullerene heterojunctions. <i>Applied Physics Letters</i> , 2008 , 92, 143308	3.4	39
166	Stability of PEDOT:PSS-Coated Gold Electrodes in Cell Culture Conditions. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900662	6.8	39
165	Microsecond Response in Organic Electrochemical Transistors: Exceeding the Ionic Speed Limit. <i>Advanced Materials</i> , 2016 , 28, 8398-8404	24	38
164	A light-emitting memristor. <i>Organic Electronics</i> , 2010 , 11, 150-153	3.5	38
163	When Bio Meets Technology: Biohybrid Neural Interfaces. <i>Advanced Materials</i> , 2020 , 32, e1903182	24	38
162	Cholinium-based ion gels as solid electrolytes for long-term cutaneous electrophysiology. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8942-8948	7.1	37
161	Autoclave Sterilization of PEDOT:PSS Electrophysiology Devices. <i>Advanced Healthcare Materials</i> , 2016 , 5, 3094-3098	10.1	37
160	Lead-salt quantum-dot ionic liquids. <i>Small</i> , 2010 , 6, 638-41	11	37
159	Observation of intermediate-range order in a nominally amorphous molecular semiconductor film. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1458-1461		37
158	Wettability of PEDOT:PSS films. <i>Soft Matter</i> , 2016 , 12, 5146-53	3.6	37
157	Optical Measurements Revealing Nonuniform Hole Mobility in Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500189	6.4	36
156	Semiperfluoroalkyl Polyfluorenes for Orthogonal Processing in Fluorous Solvents. <i>Macromolecules</i> , 2010 , 43, 1195-1198	5.5	36
155	Isomerically pure electron-deficient anthradithiophenes and their acceptor performance in polymer solar cells. <i>Chemical Communications</i> , 2011 , 47, 7617-9	5.8	36
154	Fully printed all-polymer tattoo/textile electronics for electromyography. <i>Flexible and Printed Electronics</i> , 2018 , 3, 034004	3.1	35
153	Orthogonal processing and patterning enabled by highly fluorinated light-emitting polymers. <i>Advanced Materials</i> , 2011 , 23, 735-9	24	35
152	In situ identification of a luminescence quencher in an organic light-emitting device. <i>Journal of Materials Chemistry</i> , 2007 , 17, 76-81		35

151	A simple model for ion injection and transport in conducting polymers. <i>Journal of Applied Physics</i> , 2013 , 113, 244501	2.5	34
150	Conducting Polymer Ion Gels Based on PEDOT and Guar Gum. <i>ACS Macro Letters</i> , 2017 , 6, 473-478	6.6	33
149	Importance of C(2) symmetry for the device performance of a newly synthesized family of fused-ring thiophenes. <i>Chemistry of Materials</i> , 2010 , 22, 2770-2779	9.6	33
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