

Jeong Ho Cho

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2888701/jeong-ho-cho-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

288
papers

13,170
citations

57
h-index

105
g-index

303
ext. papers

15,004
ext. citations

10.3
avg, IF

6.71
L-index

#	Paper	IF	Citations
288	Printable ion-gel gate dielectrics for low-voltage polymer thin-film transistors on plastic. <i>Nature Materials</i> , 2008 , 7, 900-6	27	959
287	High-performance perovskite-graphene hybrid photodetector. <i>Advanced Materials</i> , 2015 , 27, 41-6	24	651
286	Stretchable and Multimodal All Graphene Electronic Skin. <i>Advanced Materials</i> , 2016 , 28, 2601-8	24	385
285	High-performance flexible graphene field effect transistors with ion gel gate dielectrics. <i>Nano Letters</i> , 2010 , 10, 3464-6	11.5	350
284	Stretchable graphene transistors with printed dielectrics and gate electrodes. <i>Nano Letters</i> , 2011 , 11, 4642-6	11.5	326
283	Photoresponse of CsPbBr and CsPbBr Perovskite Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 565-570	6.4	295
282	Ion Gel-Gated Polymer Thin-Film Transistors: Operating Mechanism and Characterization of Gate Dielectric Capacitance, Switching Speed, and Stability. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8972-8981	11.8	287
281	Active Matrix Electronic Skin Strain Sensor Based on Piezopotential-Powered Graphene Transistors. <i>Advanced Materials</i> , 2015 , 27, 3411-7	24	239
280	Large-scale organic nanowire lithography and electronics. <i>Nature Communications</i> , 2013 , 4, 1773	17.4	235
279	Dye-sensitized MoS ₂ photodetector with enhanced spectral photoresponse. <i>ACS Nano</i> , 2014 , 8, 8285-91	16.7	217
278	Effect of the phase states of self-assembled monolayers on pentacene growth and thin-film transistor characteristics. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10556-64	16.4	199
277	Solubility-Induced Ordered Polythiophene Precursors for High-Performance Organic Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2009 , 19, 1200-1206	15.6	190
276	Low-Temperature, solution-processed and alkali metal doped ZnO for high-performance thin-film transistors. <i>Advanced Materials</i> , 2012 , 24, 834-8	24	189
275	Optoelectronic Synapse Based on IGZO-Alkylated Graphene Oxide Hybrid Structure. <i>Advanced Functional Materials</i> , 2018 , 28, 1804397	15.6	171
274	Stable superhydrophobic organic-inorganic hybrid films by electrostatic self-assembly. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20773-8	3.4	168
273	High-Performance Triboelectric Nanogenerators Based on Electrospun Polyvinylidene Fluoride/Silver Nanowire Composite Nanofibers. <i>Advanced Functional Materials</i> , 2018 , 28, 1703778	15.6	168
272	Printed Sub-2 V Gel-Electrolyte-Gated Polymer Transistors and Circuits. <i>Advanced Functional Materials</i> , 2010 , 20, 587-594	15.6	166

271	Transparent, low-power pressure sensor matrix based on coplanar-gate graphene transistors. <i>Advanced Materials</i> , 2014 , 26, 4735-40	24	160
270	Importance of Solubilizing Group and Backbone Planarity in Low Band Gap Polymers for High Performance Ambipolar field-effect Transistors. <i>Chemistry of Materials</i> , 2012 , 24, 1316-1323	9.6	158
269	Synthesis of wafer-scale uniform molybdenum disulfide films with control over the layer number using a gas phase sulfur precursor. <i>Nanoscale</i> , 2014 , 6, 2821-6	7.7	153
268	Large-Area MXene Electrode Array for Flexible Electronics. <i>ACS Nano</i> , 2019 , 13, 11392-11400	16.7	133
267	A roll-to-roll welding process for planarized silver nanowire electrodes. <i>Nanoscale</i> , 2014 , 6, 11828-34	7.7	132
266	Lead-Free Perovskite Nanocrystals for Light-Emitting Devices. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1573-1583	6.4	129
265	Solution-processable pentacene microcrystal arrays for high performance organic field-effect transistors. <i>Applied Physics Letters</i> , 2007 , 90, 132106	3.4	129
264	Comparison of the Mobility-Carrier Density Relation in Polymer and Single-Crystal Organic Transistors Employing Vacuum and Liquid Gate Dielectrics. <i>Advanced Materials</i> , 2009 , 21, 2174-2179	24	128
263	Effect of side chain length on molecular ordering and field-effect mobility in poly(3-alkylthiophene) transistors. <i>Organic Electronics</i> , 2006 , 7, 514-520	3.5	128
262	Graphene-based flexible and stretchable thin film transistors. <i>Nanoscale</i> , 2012 , 4, 4870-82	7.7	125
261	Low-voltage and high-field-effect mobility organic transistors with a polymer insulator. <i>Applied Physics Letters</i> , 2006 , 88, 072101	3.4	121
260	Modulation of Quantum Tunneling via a Vertical Two-Dimensional Black Phosphorus and Molybdenum Disulfide p-n Junction. <i>ACS Nano</i> , 2017 , 11, 9143-9150	16.7	113
259	Semiconductor-Dielectric Blends: A Facile All Solution Route to Flexible All-Organic Transistors. <i>Advanced Materials</i> , 2009 , 21, 4243-4248	24	113
258	Flexible and transparent metallic grid electrodes prepared by evaporative assembly. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12380-7	9.5	111
257	Probing Out-of-Plane Charge Transport in Black Phosphorus with Graphene-Contacted Vertical Field-Effect Transistors. <i>Nano Letters</i> , 2016 , 16, 2580-5	11.5	106
256	Epitaxial Synthesis of Molybdenum Carbide and Formation of a MoC/MoS Hybrid Structure via Chemical Conversion of Molybdenum Disulfide. <i>ACS Nano</i> , 2018 , 12, 338-346	16.7	105
255	Multibit MoS Photoelectronic Memory with Ultrahigh Sensitivity. <i>Advanced Materials</i> , 2016 , 28, 9196-9204	24	105
254	Coplanar-gate transparent graphene transistors and inverters on plastic. <i>ACS Nano</i> , 2012 , 6, 8646-51	16.7	104

253	Multifunctional hybrid fabrics with thermally stable superhydrophobicity. <i>Advanced Materials</i> , 2010 , 22, 2138-41	24	103
252	High-mobility low-temperature ZnO transistors with low-voltage operation. <i>Applied Physics Letters</i> , 2010 , 96, 192115	3.4	102
251	Multifunctional graphene optoelectronic devices capable of detecting and storing photonic signals. <i>Nano Letters</i> , 2015 , 15, 2542-7	11.5	98
250	Control of mesoscale and nanoscale ordering of organic semiconductors at the gate dielectric/semiconductor interface for organic transistors. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2549		93
249	Enhanced Raman Scattering of Rhodamine 6G Films on Two-Dimensional Transition Metal Dichalcogenides Correlated to Photoinduced Charge Transfer. <i>Chemistry of Materials</i> , 2016 , 28, 180-187	9.6	88
248	Effects of metal penetration into organic semiconductors on the electrical properties of organic thin film transistors. <i>Applied Physics Letters</i> , 2006 , 89, 132101	3.4	84
247	Effects of the permanent dipoles of self-assembled monolayer-treated insulator surfaces on the field-effect mobility of a pentacene thin-film transistor. <i>Applied Physics Letters</i> , 2007 , 90, 132104	3.4	83
246	MoS ₂ -InGaZnO Heterojunction Phototransistors with Broad Spectral Responsivity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8576-82	9.5	79
245	Ultrathin organic solar cells with graphene doped by ferroelectric polarization. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3299-304	9.5	79
244	Solvent effect of inkjet printed source/drain electrodes on electrical properties of polymer thin-film transistors. <i>Applied Physics Letters</i> , 2006 , 88, 082102	3.4	79
243	Multivalued Logic Gates: Recent Advances on Multivalued Logic Gates: A Materials Perspective (Adv. Sci. 8/2021). <i>Advanced Science</i> , 2021 , 8, 2170040	13.6	78
242	Highly tunable charge transport in layer-by-layer assembled graphene transistors. <i>ACS Nano</i> , 2012 , 6, 2432-40	16.7	77
241	Influence of the dielectric constant of a polyvinyl phenol insulator on the field-effect mobility of a pentacene-based thin-film transistor. <i>Applied Physics Letters</i> , 2005 , 87, 152105	3.4	73
240	Change of molecular ordering in soluble acenes via solvent annealing and its effect on field-effect mobility. <i>Applied Physics Letters</i> , 2007 , 91, 092105	3.4	72
239	Low-Voltage Complementary Electronics from Ion-Gel-Gated Vertical Van der Waals Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 3742-8	24	70
238	Sensing with MXenes: Progress and Prospects. <i>Advanced Materials</i> , 2021 , 33, e2005846	24	66
237	An Organic Vertical Field-Effect Transistor with Underside-Doped Graphene Electrodes. <i>Advanced Materials</i> , 2016 , 28, 4803-10	24	64
236	Robust superhydrophobic mats based on electrospun crystalline nanofibers combined with a silane precursor. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 658-62	9.5	64

235	Transparent and Self-Powered Multistage Sensation Matrix for Mechanosensation Application. <i>ACS Nano</i> , 2018 , 12, 254-262	16.7	63
234	A polymer brush organic interlayer improves the overlying pentacene nanostructure and organic field-effect transistor performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15580		60
233	Halide Welding for Silver Nanowire Network Electrode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30779-30785	9.5	58
232	Mechanically Robust Silver Nanowires Network for Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2016 , 26, 7717-7724	15.6	57
231	Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization. <i>Advanced Energy Materials</i> , 2018 , 8, 1702369	21.8	56
230	Organic field-effect transistor memory devices using discrete ferritin nanoparticle-based gate dielectrics. <i>Small</i> , 2013 , 9, 3784-91	11	56
229	Solar-stimulated optoelectronic synapse based on organic heterojunction with linearly potentiated synaptic weight for neuromorphic computing. <i>Nano Energy</i> , 2019 , 66, 104095	17.1	55
228	Roll-to-roll preparation of silver-nanowire transparent electrode and its application to large-area organic light-emitting diodes. <i>Organic Electronics</i> , 2017 , 41, 190-197	3.5	55
227	Wide-range controllable n-doping of molybdenum disulfide (MoS ₂) through thermal and optical activation. <i>ACS Nano</i> , 2015 , 9, 2368-76	16.7	54
226	Vertical organic synapse expandable to 3D crossbar array. <i>Nature Communications</i> , 2020 , 11, 4595	17.4	54
225	Large-Area CVD-Grown Sub-2 V ReS Transistors and Logic Gates. <i>Nano Letters</i> , 2017 , 17, 2999-3005	11.5	52
224	Superamphiphilic Janus fabric. <i>Langmuir</i> , 2010 , 26, 19159-62	4	52
223	Positively-charged reduced graphene oxide as an adhesion promoter for preparing a highly-stable silver nanowire film. <i>Nanoscale</i> , 2015 , 7, 6798-804	7.7	49
222	Enhanced electrical properties of reduced graphene oxide multilayer films by in-situ insertion of a TiO ₂ layer. <i>ACS Nano</i> , 2011 , 5, 8884-91	16.7	49
221	Hybrid structures of organic dye and graphene for ultrahigh gain photodetectors. <i>Carbon</i> , 2015 , 88, 165-172	17.2	48
220	2D MXene-TiO Core-Shell Nanosheets as a Data-Storage Medium in Memory Devices. <i>Advanced Materials</i> , 2020 , 32, e1907633	24	48
219	Fingerprint-Inspired Conducting Hierarchical Wrinkles for Energy-Harvesting E-Skin. <i>Advanced Functional Materials</i> , 2019 , 29, 1903580	15.6	48
218	Photo-patternable ion gel-gated graphene transistors and inverters on plastic. <i>Nanotechnology</i> , 2014 , 25, 014002	3.4	48

217	2D-Organic Hybrid Heterostructures for Optoelectronic Applications. <i>Advanced Materials</i> , 2019 , 31, e1803831	16.7	46
216	Halide Perovskite Nanopillar Photodetector. <i>ACS Nano</i> , 2018 , 12, 8564-8571	16.7	46
215	High field-effect mobility pentacene thin-film transistors with nanoparticle polymer composite/polymer bilayer insulators. <i>Applied Physics Letters</i> , 2009 , 94, 183301	3.4	46
214	Electrolyte-gated graphene Schottky barrier transistors. <i>Advanced Materials</i> , 2015 , 27, 5875-81	24	43
213	High-resolution patterning of colloidal quantum dots via non-destructive, light-driven ligand crosslinking. <i>Nature Communications</i> , 2020 , 11, 2874	17.4	42
212	Multifunctional Smart Textronics with Blow-Spun Nonwoven Fabrics. <i>Advanced Functional Materials</i> , 2019 , 29, 1900025	15.6	41
211	Epitaxial-Growth-Induced Junction Welding of Silver Nanowire Network Electrodes. <i>ACS Nano</i> , 2018 , 12, 4894-4902	16.7	41
210	Quantum confinement effects in transferrable silicon nanomembranes and their applications on unusual substrates. <i>Nano Letters</i> , 2013 , 13, 5600-7	11.5	41
209	High-Performance Stablen-Type Indenofluorenedione Field-Effect Transistors. <i>Chemistry of Materials</i> , 2011 , 23, 4038-4044	9.6	41
208	Trap-induced photoresponse of solution-synthesized MoS ₂ . <i>Nanoscale</i> , 2016 , 8, 9193-200	7.7	41
207	Nanoscale management of molecular packing and orientation of small molecules by a combination of linear and branched alkyl side chains. <i>ACS Nano</i> , 2014 , 8, 5988-6003	16.7	40
206	Polymer Brush As a Facile Dielectric Surface Treatment for High-Performance, Stable, Soluble Acene-Based Transistors. <i>Chemistry of Materials</i> , 2010 , 22, 5377-5382	9.6	40
205	Graphene-graphene oxide floating gate transistor memory. <i>Small</i> , 2015 , 11, 311-8	11	39
204	Polyelectrolyte interlayer for ultra-sensitive organic transistor humidity sensors. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8591-6	9.5	39
203	Enhancement of Field-Effect Mobility and Stability of Poly(3-hexylthiophene) Field-Effect Transistors by Conformational Change. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1705-1710	3.8	39
202	Ultraclean and Direct Transfer of a Wafer-Scale MoS Thin Film onto a Plastic Substrate. <i>Advanced Materials</i> , 2017 , 29, 1603928	24	37
201	Crack-Enhanced Microfluidic Stretchable E-Skin Sensor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44678-44686	9.5	36
200	Room-Temperature Self-Organizing Characteristics of Soluble Acene Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2008 , 18, 560-565	15.6	36

199	Energy-Level Alignment at Interfaces Between Gold and Poly(3-hexylthiophene) Films with Two Different Molecular Structures. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, G317		36
198	Mechanosensation-Active Matrix Based on Direct-Contact Tribotronic Planar Graphene Transistor Array. <i>ACS Nano</i> , 2018 , 12, 9381-9389	16.7	36
197	Phase-Preferential blow-spun fabrics for wearable triboelectric nanogenerators and textile interactive interface. <i>Nano Energy</i> , 2020 , 77, 105262	17.1	35
196	Apparent pH sensitivity of solution-gated graphene transistors. <i>Nanoscale</i> , 2015 , 7, 7540-4	7.7	34
195	Decoupling the Bias-Stress-Induced Charge Trapping in Semiconductors and Gate-Dielectrics of Organic Transistors Using a Double Stretched-Exponential Formula. <i>Advanced Functional Materials</i> , 2013 , 23, 690-696	15.6	34
194	Enhancing crystallinity of C60 layer by thickness-control of underneath pentacene layer for high mobility C60/pentacene ambipolar transistors. <i>Applied Physics Letters</i> , 2013 , 102, 043306	3.4	34
193	Black phosphorus nonvolatile transistor memory. <i>Nanoscale</i> , 2016 , 8, 9107-12	7.7	34
192	Electrospun smart fabrics that display pH-responsive tunable wettability. <i>Soft Matter</i> , 2012 , 8, 10238	3.6	33
191	A multiple negative differential resistance heterojunction device and its circuit application to ternary static random access memory. <i>Nanoscale Horizons</i> , 2020 , 5, 654-662	10.8	32
190	In/Ga-free, inkjet-printed charge transfer doping for solution-processed ZnO. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9765-9	9.5	32
189	Large-area niobium disulfide thin films as transparent electrodes for devices based on two-dimensional materials. <i>Nanoscale</i> , 2018 , 10, 1056-1062	7.7	32
188	The structural, optical and electrical characterization of high-performance, low-temperature and solution-processed alkali metal-doped ZnO TFTs. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1383	7.1	31
187	Surface energy engineered, high-resolution micropatterning of solution-processed reduced graphene oxide thin films. <i>Advanced Materials</i> , 2013 , 25, 894-8	24	31
186	Gate-Tunable Synaptic Dynamics of Ferroelectric-Coupled Carbon-Nanotube Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4707-4714	9.5	30
185	High crystalline dithienosilole-cored small molecule semiconductor for ambipolar transistor and nonvolatile memory. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6589-97	9.5	29
184	Counterion-induced reversibly switchable transparency in smart windows. <i>ACS Nano</i> , 2011 , 5, 7397-403	16.7	29
183	Switchable Tack in Side-Chain Liquid Crystalline Polymers. <i>Macromolecules</i> , 2003 , 36, 2009-2014	5.5	29
182	Monolithic metal oxide transistors. <i>ACS Nano</i> , 2015 , 9, 4288-95	16.7	28

181	Metallic Grid Electrode Fabricated via Flow Coating for High-Performance Flexible Piezoelectric Nanogenerators. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7802-7808	3.8	28
180	Flexible and Mechanically Robust Organic Light-Emitting Diodes Based on Photopatternable Silver Nanowire Electrodes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22012-22018	3.8	28
179	Self-Organization Characteristics of Soluble Pentacene on Wettability-Controlled Patterned Substrate for Organic Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2329-2333	3.8	28
178	Capacitively Coupled Hybrid Ion Gel and Carbon Nanotube Thin-Film Transistors for Low Voltage Flexible Logic Circuits. <i>Advanced Functional Materials</i> , 2018 , 28, 1802610	15.6	28
177	Transparent and Colorless Polyimides Containing Multiple Trifluoromethyl Groups as Gate Insulators for Flexible Organic Transistors with Superior Electrical Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18739-18747	9.5	27
176	Structure-Property Relationships of Semiconducting Polymers for Flexible and Durable Polymer Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40503-40515	9.5	27
175	Crystallinity-Controlled Naphthalene-alt-diketopyrrolopyrrole Copolymers for High-Performance Ambipolar Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26204-26213	3.8	26
174	Interpenetrating polymer network dielectrics for high-performance organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6968		26
173	Piezopotential-Programmed Multilevel Nonvolatile Memory As Triggered by Mechanical Stimuli. <i>ACS Nano</i> , 2016 , 10, 11037-11043	16.7	26
172	Ion-Gel-Gated Graphene Optical Modulator with Hysteretic Behavior. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1836-1845	9.5	25
171	Organic Dye Graphene Hybrid Structures with Spectral Color Selectivity. <i>Advanced Functional Materials</i> , 2016 , 26, 6593-6600	15.6	25
170	Petal-Inspired Diffractive Grating on a Wavy Surface: Deterministic Fabrications and Applications to Colorizations and LED Devices. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9935-9944	9.5	24
169	Direct synthesis of large-area continuous ReS ₂ films on a flexible glass at low temperature. <i>2D Materials</i> , 2017 , 4, 025057	5.9	24
168	High performance of low band gap polymer-based ambipolar transistor using single-layer graphene electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6002-12	9.5	24
167	Universal three-dimensional crosslinker for all-photopatterned electronics. <i>Nature Communications</i> , 2020 , 11, 1520	17.4	24
166	Tunable Charge Injection via Solution-Processed Reduced Graphene Oxide Electrode for Vertical Schottky Barrier Transistors. <i>Chemistry of Materials</i> , 2018 , 30, 636-643	9.6	24
165	Water-gel for gating graphene transistors. <i>Nano Letters</i> , 2014 , 14, 2610-6	11.5	24
164	Optoelectronic In-Ga-Zn-O Memtransistors for Artificial Vision System. <i>Advanced Functional Materials</i> , 2020 , 30, 2002325	15.6	24

163	Highly Sensitive and Reusable Membraneless Field-Effect Transistor (FET)-Type Tungsten Diselenide (WSe) Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17639-17645	9.5	24
162	Self-Healable Hydrogel-Liquid Metal Composite Platform Enabled by a 3D Printed Stamp for a Multimodular Sensor System. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9824-9832	9.5	23
161	Organic field-effect transistors integrated with TiCT electrodes. <i>Nanoscale</i> , 2018 , 10, 5191-5197	7.7	23
160	Graphene nano-floating gate transistor memory on plastic. <i>Nanoscale</i> , 2014 , 6, 15286-92	7.7	23
159	Ambipolar transport based on CVD-synthesized ReSe 2. <i>2D Materials</i> , 2017 , 4, 025014	5.9	22
158	Electrically Controllable Molecularization of Terahertz Meta-Atoms. <i>Advanced Materials</i> , 2018 , 30, e1802760	7.6	22
157	Electrical Transport through Single Nanowires of Dialkyl Perylene Diimide. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10743-10749	3.8	22
156	Low-voltage solution-processed graphene transistors based on chemically and solvothermally reduced graphene oxide. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13068		22
155	Control of the electrical and adhesion properties of metal/organic interfaces with self-assembled monolayers. <i>Applied Physics Letters</i> , 2005 , 86, 171906	3.4	22
154	High-Performance Perovskite-Based Blue Light-Emitting Diodes with Operational Stability by Using Organic Ammonium Cations as Passivating Agents. <i>Advanced Functional Materials</i> , 2021 , 31, 2005553	15.6	22
153	Recent Advances on Multivalued Logic Gates: A Materials Perspective. <i>Advanced Science</i> , 2021 , 8, 2004216	15.6	22
152	Large-Area Schottky Barrier Transistors Based on Vertically Stacked Graphene/Metal Oxide Heterostructures. <i>Advanced Functional Materials</i> , 2017 , 27, 1700651	15.6	21
151	Schottky-Barrier-Controllable Graphene Electrode to Boost Rectification in Organic Vertical PN Junction Photodiodes. <i>Advanced Functional Materials</i> , 2017 , 27, 1704475	15.6	21
150	Printed In-Ga-Zn-O drop-based thin-film transistors sintered using intensely pulsed white light. <i>RSC Advances</i> , 2015 , 5, 78655-78659	3.7	21
149	Piezotronic graphene barristor: Efficient and interactive modulation of Schottky barrier. <i>Nano Energy</i> , 2018 , 50, 598-605	17.1	21
148	Polyol synthesis of silver nanostructures: Inducing the growth of nanowires by a heat-up process. <i>Chemical Physics Letters</i> , 2014 , 602, 10-15	2.5	21
147	Evaluation of the adhesion properties of inorganic materials with high surface energies. <i>Langmuir</i> , 2004 , 20, 10174-8	4	21
146	Light-transformable and -healable triboelectric nanogenerators. <i>Nano Energy</i> , 2017 , 38, 412-418	17.1	20

145	Proton-Conductor-Gated MoS ₂ Transistors with Room Temperature Electron Mobility of >100 cm ² V ⁻¹ s ⁻¹ . <i>Chemistry of Materials</i> , 2018 , 30, 4527-4535	9.6	20
144	Correlation between Crystallinity, Charge Transport, and Electrical Stability in an Ambipolar Polymer Field-Effect Transistor Based on Poly(naphthalene-alt-diketopyrrolopyrrole). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11479-11486	3.8	20
143	Ladder-Type Silsesquioxane Copolymer Gate Dielectrics for High-Performance Organic Transistors and Inverters. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3501-3508	3.8	19
142	Photoresponsive Transistors Based on a Dual Acceptor-Containing Low-Bandgap Polymer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19011-19020	9.5	18
141	Vertically Stacked CVD-Grown 2D Heterostructure for Wafer-Scale Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35444-35450	9.5	18
140	Photosensitive Graphene P-N Junction Transistors and Ternary Inverters. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12897-12903	9.5	18
139	Solvent-vapor-annealed ADA-type semicrystalline conjugated small molecules for flexible ambipolar field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5698-5706	7.1	18
138	Robust multifunctional superhydrophobic organic/inorganic hybrid macroporous coatings and films. <i>Polymer</i> , 2014 , 55, 2661-2666	3.9	18
137	Fabrication of stable electrospun TiO ₂ nanorods for high-performance dye-sensitized solar cells. <i>Macromolecular Research</i> , 2013 , 21, 636-640	1.9	18
136	Structure and Chain Orientation in Thin Films of Side-Chain Liquid Crystalline Polymers. <i>Langmuir</i> , 2003 , 19, 7021-7025	4	18
135	Artificial stimulus-response system capable of conscious response. <i>Science Advances</i> , 2021 , 7,	14.3	18
134	Precise control of surface wettability of mixed monolayers using a simple wiping method. <i>Thin Solid Films</i> , 2006 , 515, 2079-2084	2.2	17
133	3D-Printed Sugar Scaffold for High-Precision and Highly Sensitive Active and Passive Wearable Sensors. <i>Advanced Science</i> , 2020 , 7, 1902521	13.6	17
132	Improvement of efficiency of polymer solar cell by incorporation of the planar shaped monomer in low band gap polymer. <i>Synthetic Metals</i> , 2012 , 162, 768-774	3.6	16
131	Alkyl Side Chain Length Modulates the Electronic Structure and Electrical Characteristics of Poly(3-alkylthiophene) Thin Films. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11764-11769	3.8	16
130	Oxygen-Detecting Synaptic Device for Realization of Artificial Autonomic Nervous System for Maintaining Oxygen Homeostasis. <i>Advanced Materials</i> , 2020 , 32, e2002653	24	15
129	Actively Operable Thermoresponsive Smart Windows for Reducing Energy Consumption. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33838-33845	9.5	15
128	A Nonchlorinated Solvent-Processable Fluorinated Planar Conjugated Polymer for Flexible Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28817-28827	9.5	15

127	pn-Heterojunction effects of perylene tetracarboxylic diimide derivatives on pentacene field-effect transistor. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2025-31	9.5	15
126	Wafer-scale patterning of reduced graphene oxide electrodes by transfer-and-reverse stamping for high performance OFETs. <i>Small</i> , 2013 , 9, 2817-25	11	15
125	Aqueous-Alcohol-Processable High-Mobility Semiconducting Copolymers with Engineered Oligo(ethylene glycol) Side Chains. <i>Chemistry of Materials</i> , 2020 , 32, 1111-1119	9.6	15
124	Large-Area TiCT-MXene Coating: Toward Industrial-Scale Fabrication and Molecular Separation. <i>ACS Nano</i> , 2021 , 15, 8860-8869	16.7	15
123	On-demand doping of graphene by stamping with a chemically functionalized rubber lens. <i>ACS Nano</i> , 2015 , 9, 4354-61	16.7	14
122	Work Function Engineering of Electrohydrodynamic-Jet-Printed PEDOT:PSS Electrodes for High-Performance Printed Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17799-17805	9.5	14
121	Generalized Scheme for High Performing Photodetectors with a p-Type 2D Channel Layer and n-Type Nanoparticles. <i>Small</i> , 2018 , 14, 1703065	11	14
120	A new rigid planar low band gap PTTDPP-DT-DTT polymer for organic transistors and performance improvement through the use of a binary solvent system. <i>Dyes and Pigments</i> , 2016 , 126, 138-146	4.6	14
119	Biologically Plausible Artificial Synaptic Array: Replicating Ebbinghaus Memory Curve with Selective Attention. <i>Advanced Materials</i> , 2021 , 33, e2007782	24	14
118	Impact of Terminal End-Group of Acceptor-Donor-Acceptor-type Small Molecules on Molecular Packing and Photovoltaic Properties. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39952-39961	9.5	14
117	Low-Band-Gap Polymer-Based Ambipolar Transistors and Inverters Fabricated Using a Flow-Coating Method. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13865-13872	3.8	13
116	Effects of Physical Treatment of ITO Electrodes on the Electrical Properties of Pentacene Thin-Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, H239		13
115	Scalable Two-Dimensional Lateral Metal/Semiconductor Junction Fabricated with Selective Synthetic Integration of Transition-Metal-Carbide (MoC)/-Dichalcogenide (MoS). <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47190-47196	9.5	13
114	Metal nanowire-polymer matrix hybrid layer for triboelectric nanogenerator. <i>Nano Energy</i> , 2019 , 58, 227-233	17.1	13
113	Low-Voltage 2D Material Field-Effect Transistors Enabled by Ion Gel Capacitive Coupling. <i>Chemistry of Materials</i> , 2017 , 29, 4008-4013	9.6	12
112	Organic-inorganic hybrid perovskite electronics. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 13347-13357	13.57	12
111	Discontinuous pn-Heterojunction for Organic Thin Film Transistors. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18146-18152	3.8	12
110	Roll-to-roll redox-welding and embedding for silver nanowire network electrodes. <i>Nanoscale</i> , 2018 , 10, 18627-18634	7.7	12

109	Defect-Free Copolymer Gate Dielectrics for Gating MoS ₂ Transistors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12193-12199	3.8	12
108	Graphene Phototransistors Sensitized by Cu ₂ Se Nanocrystals with Short Amine Ligands. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5436-5443	3.8	11
107	Photogating in the Graphene-Dye-Graphene Sandwich Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23474-23481	9.5	11
106	Pressure-induced chemical enhancement in Raman scattering from graphene/Rhodamine 6G/graphene sandwich structures. <i>Carbon</i> , 2015 , 89, 318-327	10.4	11
105	Tailoring dispersion and aggregation of Au nanoparticles in the BHJ layer of polymer solar cells: plasmon effects versus electrical effects. <i>ChemSusChem</i> , 2014 , 7, 3452-8	8.3	11
104	Transistor memory devices with large memory windows, using multi-stacking of densely packed, hydrophobic charge trapping metal nanoparticle array. <i>Nanotechnology</i> , 2014 , 25, 505604	3.4	11
103	Reactive metal contact at indium oxide/self-assembled monolayer interfaces. <i>Applied Physics Letters</i> , 2006 , 88, 102104	3.4	11
102	All Solution-Processed van der Waals Heterostructures for Wafer-Scale Electronics.. <i>Advanced Materials</i> , 2021 , e2106110	24	10
101	Double Negative Differential Resistance Device Based on Hafnium Disulfide/Pentacene Hybrid Structure. <i>Advanced Science</i> , 2020 , 7, 2000991	13.6	10
100	Graphene Transistors Gated by Salted Proton Conductor. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600128	12.4	10
99	Junction Welding Techniques for Metal Nanowire Network Electrodes. <i>Macromolecular Research</i> , 2018 , 26, 1066-1073	1.9	10
98	Well-Balanced Carrier Mobilities in Ambipolar Transistors Based on Solution-Processable Low Band Gap Small Molecules. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16414-16423	3.8	9
97	Rational Band Engineering of an Organic Double Heterojunction for Artificial Synaptic Devices with Enhanced State Retention and Linear Update of Synaptic Weight. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10737-10745	9.5	9
96	Observation of the inverse giant piezoresistance effect in silicon nanomembranes probed by ultrafast terahertz spectroscopy. <i>Nano Letters</i> , 2014 , 14, 6942-8	11.5	9
95	Increased environmental stability of a tungsten bronze NIR-absorbing window. <i>Fibers and Polymers</i> , 2013 , 14, 2077-2082	2	9
94	One-Transistor-One-Transistor (1T1T) Optoelectronic Nonvolatile MoS Memory Cell with Nondestructive Read-Out. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26357-26362	9.5	9
93	Chemically tunable ultrathin silsesquiazane interlayer for n-type and p-type organic transistors on flexible plastic. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22807-14	9.5	9
92	Exploiting poly(dimethylsiloxane)-modified tips to evaluate frictional behavior by friction force microscopy. <i>Langmuir</i> , 2004 , 20, 11499-503	4	9

91	Electroplated Silver-Nickel Core-Shell Nanowire Network Electrodes for Highly Efficient Perovskite Nanoparticle Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39479-39486	9.5	9
90	A-D-A Type Semiconducting Small Molecules with Bis(alkylsulfanyl)methylene Substituents and Control of Charge Polarity for Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41842-41851	9.5	9
89	Solution-Processed MoS Film with Functional Interfaces via Precursor-Assisted Chemical Welding. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12221-12229	9.5	9
88	Dicyanodistyrylbenzene-Based Copolymers for Ambipolar Organic Field-Effect Transistors with Well-Balanced Hole and Electron Mobilities. <i>Macromolecules</i> , 2018 , 51, 8258-8267	5.5	9
87	Enhancing Performance and Stability of Tin Halide Perovskite Light Emitting Diodes via Coordination Engineering of Lewis Acid-Base Adducts. <i>Advanced Functional Materials</i> , 2106974	15.6	9
86	Remote Gating of Schottky Barrier for Transistors and Their Vertical Integration. <i>ACS Nano</i> , 2019 , 13, 7877-7885	16.7	8
85	Selectively Metallized 2D Materials for Simple Logic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18571-18579	9.5	8
84	Atomically-thin molecular layers for electrode modification of organic transistors. <i>Nanoscale</i> , 2015 , 7, 14100-8	7.7	8
83	All-Inkjet-Printed Vertical Heterostructure for Wafer-Scale Electronics. <i>ACS Nano</i> , 2019 , 13, 8213-8221	16.7	8
82	Micropatterned single-walled carbon nanotube electrodes for use in high-performance transistors and inverters. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9664-70	9.5	8
81	Directed self-assembly of organic semiconductors via confined evaporative capillary flows for use in organic field-effect transistors. <i>Organic Electronics</i> , 2014 , 15, 2322-2327	3.5	8
80	X-DNA origami-networked core-supported lipid stratum. <i>Langmuir</i> , 2015 , 31, 912-6	4	8
79	Spontaneous reduction and dispersion of graphene nano-platelets with in situ synthesized hydrazine assisted by hexamethyldisilazane. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20477		8
78	Effect of curing conditions of a poly(4-vinylphenol)gate dielectric on the performance of a pentacene-based thin film transistor. <i>Macromolecular Research</i> , 2009 , 17, 436-440	1.9	8
77	Enhancement of Hole Injection in Organic TFTs by Ozone Treatment of Indium Tin Oxide Electrodes. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, H156		8
76	Functionalized Organic Material Platform for Realization of Ternary Logic Circuit. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6119-6126	9.5	8
75	Heterogeneous Integration of 2D Materials: Recent Advances in Fabrication and Functional Device Applications. <i>Nano</i> , 2019 , 14, 1930009	1.1	8
74	High-responsivity PtSe ₂ photodetector enhanced by photogating effect. <i>Applied Physics Letters</i> , 2021 , 118, 013103	3.4	8

73	Ladder-type silsesquioxane copolymer gate dielectrics for gating solution-processed IGZO field-effect transistors. <i>Organic Electronics</i> , 2017 , 43, 41-46	3.5	7
72	Size-tunable and scalable synthesis of uniform copper nanocrystals. <i>RSC Advances</i> , 2015 , 5, 2756-2761	3.7	7
71	Metal-agglomeration-suppressed growth of MoS and MoSe films with small sulfur and selenium molecules for high mobility field effect transistor applications. <i>Nanoscale</i> , 2018 , 10, 15213-15221	7.7	7
70	Versatile threshold voltage control of OTFTs via discontinuous pn-heterojunction formation. <i>Organic Electronics</i> , 2014 , 15, 3439-3444	3.5	7
69	Counterions-exchangeable, multifunctional polyelectrolyte fabrics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14656		7
68	Selectively patterned highly conductive poly(3,4-ethylenedioxythiophene)-tosylate electrodes for high performance organic field-effect transistors. <i>Applied Physics Letters</i> , 2009 , 95, 233509	3.4	7
67	Color-Selective Schottky Barrier Modulation for Optoelectric Logic. <i>ACS Nano</i> , 2020 , 14, 16036-16045	16.7	7
66	Low-voltage complementary inverters based on ion gel-gated ReS ₂ and BP transistors. <i>FlatChem</i> , 2017 , 5, 33-39	5.1	6
65	Surface Viscoelasticity of an Organic Interlayer Affects the Crystalline Nanostructure of an Organic Semiconductor and Its Electrical Performance. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21673-21678	3.8	6
64	Silsesquiazane/organic polymer blends as organic-inorganic hybrid materials. <i>Fibers and Polymers</i> , 2012 , 13, 1113-1119	2	6
63	Enhancement of Electron Injection Using Reactive Self-Assembled Monolayer in Organic Electronic Devices. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, G147		6
62	Stress Dissipation Encoded Silk Fibroin Electrode for the Athlete-Beneficial Silk Bioelectronics.. <i>Advanced Science</i> , 2022 , e2105420	13.6	6
61	Influence of 3D morphology on the performance of all-polymer solar cells processed using environmentally benign nonhalogenated solvents. <i>Nano Energy</i> , 2020 , 77, 105106	17.1	6
60	Multifunctional Self-Combustion Additives Strategy to Fabricate Highly Responsive Hybrid Perovskite Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41674-41686	9.5	6
59	Synthesis, Molecular Packing, and Electrical Properties of New Regioisomeric n-type Semiconducting Molecules with Modification of Alkyl Substituents Position. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47170-47181	9.5	6
58	Comb-type polymer-hybridized MXene nanosheets dispersible in arbitrary polar, nonpolar, and ionic solvents.. <i>Science Advances</i> , 2022 , 8, eabl5299	14.3	6
57	High-Performance Polymer Semiconductor-Based Nonvolatile Memory Cells with Nondestructive Read-Out. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24352-24357	3.8	5
56	Intense-pulsed-UV-converted perhydropolysilazane gate dielectrics for organic field-effect transistors and logic gates.. <i>RSC Advances</i> , 2019 , 9, 3169-3175	3.7	5

55	Wafer-scale and patternable synthesis of NbS ₂ for electrodes of organic transistors and logic gates. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8599-8606	7.1	5
54	Carbon nanotube ferroelectric random access memory cell based on omega-shaped ferroelectric gate. <i>Carbon</i> , 2020 , 162, 195-200	10.4	5
53	Percolation-Limited Dual Charge Transport in Vertical pn Heterojunction Schottky Barrier Transistors. <i>Nano Letters</i> , 2020 , 20, 3585-3592	11.5	5
52	Wafer-Scale Microwire Transistor Array Fabricated via Evaporative Assembly. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15543-50	9.5	5
51	Real-time x-ray scattering study of the initial growth of organic crystals on polymer brushes. <i>Journal of Chemical Physics</i> , 2014 , 140, 154702	3.9	5
50	Crystalline nanostructure and morphology of TriF-IF-dione for high-performance stable n-type field-effect transistors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14617		5
49	Enhancement of electron injection in polymer light-emitting diodes with a supramolecular insulating nanolayer on the bottom cathode. <i>Applied Physics Letters</i> , 2006 , 89, 083508	3.4	5
48	Area-Selective Chemical Doping on Solution-Processed MoS Thin-Film for Multi-Valued Logic Gates. <i>Nano Letters</i> , 2021 ,	11.5	5
47	Multi-State Heterojunction Transistors Based on Field-Effect Tunneling-Transport Transitions. <i>Advanced Materials</i> , 2021 , 33, e2101243	24	5
46	Gate- and Light-Tunable pn Heterojunction Microwire Arrays Fabricated via Evaporative Assembly. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3857-3864	9.5	4
45	Flexible and transparent graphene complementary logic gates. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 484-490	4.6	4
44	Ultralightweight Strain-Responsive 3D Graphene Network. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9884-9893	3.8	4
43	Schottky junction photodiode based on graphene/organic semiconductor heterostructure. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 89, 233-238	6.3	4
42	Solar Cells: Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization (Adv. Energy Mater. 10/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870045	21.8	4
41	Design of Wavy Ag Microwire Array for Mechanically Stable, Multimodal Vibrational Haptic Interface. <i>Advanced Functional Materials</i> , 2019 , 29, 1902703	15.6	4
40	Electroplated core-shell nanowire network electrodes for highly efficient organic light-emitting diodes.. <i>Nano Convergence</i> , 2022 , 9, 1	9.2	4
39	Mixed urushiol and laccol compositions in natural lacquers: Convenient evaluation method and its effect on the physicochemical properties of lacquer coatings. <i>Progress in Organic Coatings</i> , 2021 , 154, 106195	4.8	4
38	Infrared study of carrier scattering mechanism in ion-gated graphene. <i>Applied Physics Letters</i> , 2019 , 114, 083503	3.4	4

37	Electrically Adaptive and Shape-Changeable Invertible Microlens. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10397-10408	9.5	4
36	Temperature sensing behavior of poly(3,4-ethylenedioxythiophene) thin film. <i>Synthetic Metals</i> , 2013 , 185-186, 52-55	3.6	3
35	Modulation of the heterogeneous senescence of human mesenchymal stem cells on chemically-modified surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 90, 36-40	6	3
34	Effect of H ₂ AuCl ₄ Doping on the Contact Properties of Polymer Thin-Film Transistors. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, H312		3
33	Processing temperature control of a diketopyrrolopyrrole-alt-thieno[2,3-b]thiophene polymer for high-mobility thin-film transistors and polymer solar cells with high open-circuit voltages. <i>Polymer</i> , 2016 , 105, 79-87	3.9	3
32	Inhomogeneous work-function hysteresis in chemical vapor deposition-grown graphene field-effect devices. <i>Carbon</i> , 2021 , 173, 594-599	10.4	3
31	Rectifying optoelectronic memory based on WSe ₂ /graphene heterostructures. <i>Nanoscale Advances</i> , 2021 , 3, 4952-4960	5.1	3
30	Cold-Trap-Mediated Broad Dynamic Photodetection in Graphene-Organic Hybrid Photonic Barristors. <i>Journal of the American Chemical Society</i> , 2021 , 143, 879-890	16.4	3
29	Complementary Driving between 2D Heterostructures and Surface Functionalization for Surpassing Binary Logic Devices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8692-8699	9.5	3
28	Graphene Photodetectors: High Performance Perovskite-Graphene Hybrid Photodetector (Adv. Mater. 1/2015). <i>Advanced Materials</i> , 2015 , 27, 188-188	24	2
27	Diketopyrrolopyrrole-based Small Molecule for Application in Solution Processed Organic Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 598, 111-119	0.5	2
26	Energy-Level Alignment at Interfaces between Gold and Poly(3-hexylthiophene) Films with two Different Molecular Structures. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
25	Risk-Perceptual and Feedback-Controlled Response System Based on NO ₂ -Detecting Artificial Sensory Synapse. <i>Advanced Functional Materials</i> , 2112490	15.6	2
24	Gate-Deterministic Remote Doping Enables Highly Retentive Graphene-MXene Hybrid Memory Devices on Plastic. <i>Advanced Functional Materials</i> , 2111956	15.6	2
23	p-CuInS /n-Polymer Semiconductor Heterojunction for Photoelectrochemical Hydrogen Evolution. <i>ChemSusChem</i> , 2020 , 13, 6651-6659	8.3	2
22	Hysteresis Behavior of the Donor-Acceptor-Type Ambipolar Semiconductor for Non-Volatile Memory Applications. <i>Micromachines</i> , 2021 , 12,	3.3	2
21	A comprehensive overview on alkaline phosphatase targeting and reporting assays. <i>Coordination Chemistry Reviews</i> , 2022 , 465, 214567	23.2	2
20	Photoresponse of Physically Oxidized Graphene Sensitized by an Organic Dye. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8188-8195	3.8	1

19	Photodiodes: Schottky-Barrier-Controllable Graphene Electrode to Boost Rectification in Organic Vertical PN Junction Photodiodes (Adv. Funct. Mater. 48/2017). <i>Advanced Functional Materials</i> , 2017 , 27, 1770286	15.6	1
18	Electrolyte-Gating Organic Thin Film Transistors 2015 , 253-274		1
17	Environmentally stable NIR-absorbing window. <i>Pigment and Resin Technology</i> , 2012 , 41, 311-315	1	1
16	Fabrication of van der Waals heterostructures through direct growth of rhenium disulfide on van der Waals surfaces. <i>Applied Surface Science</i> , 2021 , 544, 148865	6.7	1
15	Monolithic Tandem Multicolor Image Sensor Based on Electrochromic Color-Radix Demultiplexing. <i>Advanced Materials</i> , 2021 , 33, e2102725	24	1
14	Tetrabranched Photo-Crosslinker Enables Micrometer-Scale Patterning of Light-Emitting Super Yellow for High-Resolution OLEDs. <i>ACS Photonics</i> , 2021 , 8, 2519-2528	6.3	1
13	Deterministic Multimodal Perturbation Enables Neuromorphic-Compatible Signal Multiplexing 2022 , 4, 102-110		1
12	Photo-crosslinkable NIR-absorbing window with environmental stability. <i>Pigment and Resin Technology</i> , 2013 , 42, 170-174	1	0
11	Commensurate Assembly of C on Black Phosphorus for Mixed-Dimensional van der Waals Transistors.. <i>Small</i> , 2022 , e2105916	11	0
10	A general fruit acid chelation route for eco-friendly and ambient 3D printing of metals.. <i>Nature Communications</i> , 2022 , 13, 104	17.4	0
9	Enhanced band-filling effect in halide perovskites via hydrophobic conductive linkers. <i>Cell Reports Physical Science</i> , 2022 , 3, 100800	6.1	0
8	Aqueous-processable, naphthalene diimide-based polymers for eco-friendly fabrication of high-performance, n-type organic electrolyte-gated transistors. <i>Science China Chemistry</i> , 2022 , 65, 100000	7.9	0
7	Terahertz Metamaterials: Electrically Controllable Molecularization of Terahertz Meta-Atoms (Adv. Mater. 31/2018). <i>Advanced Materials</i> , 2018 , 30, 1870231	24	
6	Characteristics of Vertical Type Organic Light Emitting Transistor Using IF-dione-F as an Active Layer and DMDCNQI as a n Type Buffer Layer. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 566, 87-93	0.5	
5	Studies on the characteristics and durability of a vertical type organic transistor using indenofluorenedione derivatives as an N-type active material. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 8016-9	1.3	
4	Application of Plywood with Water-Based Phenol-Formaldehyde Resin Impregnated Linerboards as Formwork for Concrete Structure. <i>Journal of Adhesion Science and Technology</i> , 2011 , 25, 169-178	2	
3	Interface modification of cathode electrode using dimethylidicyanoquinonediimine as a charge transfer layer in organic photovoltaic cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 3543-6	1.3	
2	Kinetic and thermodynamic analyses of adhesion of a peptide, Trp-Lys-Tyr-Met-Val-D-Met (WKYVM), and human formyl peptide receptor (hFPR). <i>Biotechnology Letters</i> , 2010 , 32, 773-9	3	

- 1 All-Solution-Processed Van der Waals Heterostructures for Wafer-Scale Electronics (Adv. Mater. 12/2022). *Advanced Materials*, **2022**, 34, 2270096

24