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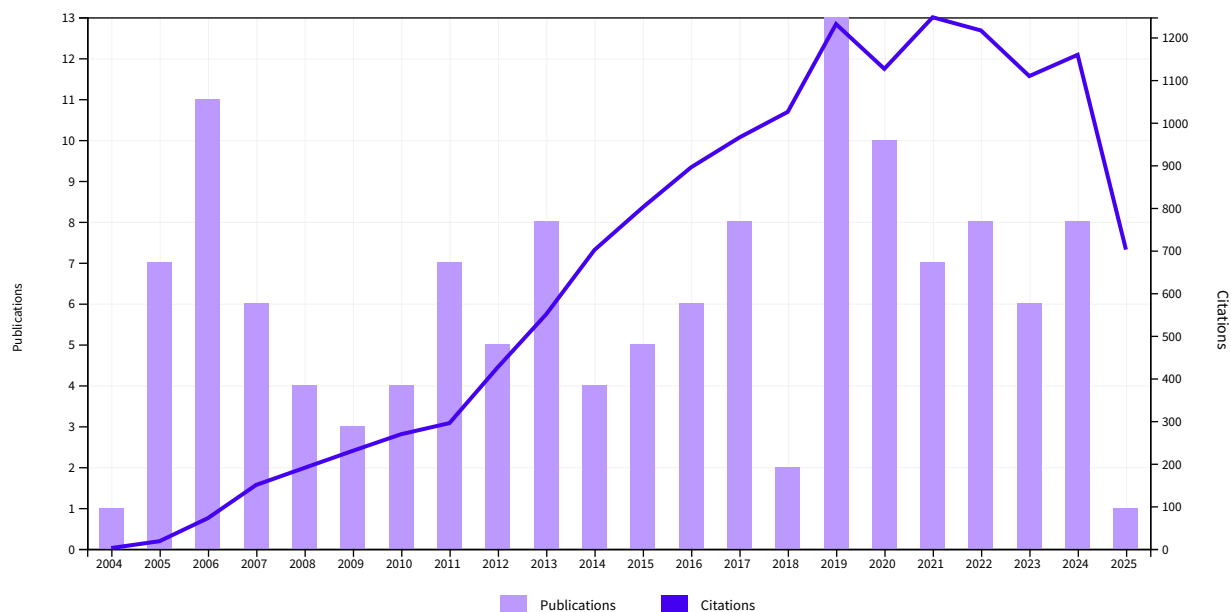
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Flexible polymer transistors with high pressure sensitivity for application in electronic skin and health monitoring

[Schwartz, G; Tee, BCK; \(...\); Bao, ZN](#)May 2013 | [NATURE COMMUNICATIONS](#) ▾ 4

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138

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Full-colour quantum dot displays fabricated by transfer printing

[Kim, TH; Cho, KS; \(...\); Kim, K](#)Mar 2011 | [NATURE PHOTONICS](#) ▾ 5 (3), pp.176-182

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67.13

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Tuning charge transport in solution-sheared organic semiconductors using lattice strain

[Giri, G; Verploegen, E; \(...\); Bao, ZA](#)Dec 22 2011 | [NATURE](#) ▾ 480 (7378), pp.504-U124

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⊖ 4

Solution coating of large-area organic semiconductor thin films with aligned single-crystalline domains

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	Diao, Y; Tee, BCK; (...); Bao, ZN Jul 2013 NATURE MATERIALS ▼ 12 (7) , pp.665-671							
5	Siloxane-Terminated Solubilizing Side Chains: Bringing Conjugated Polymer Backbones Closer and Boosting Hole Mobilities in Thin-Film Transistors Mei, JG; Kim, DH; (...); Bao, ZA Dec 21 2011 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY ▼ 133 (50) , pp.20130-20133	37	31	23	29	9	43.07	646
6	Linearly and Highly Pressure-Sensitive Electronic Skin Based on a Bioinspired Hierarchical Structural Array Bae, GY; Pak, SW; (...); Cho, K Jul 13 2016 ADVANCED MATERIALS ▼ 28 (26) , pp.5300+	83	93	64	62	20	56.9	569
7	Stretchable and Multimodal All Graphene Electronic Skin Ho, DH; Sun, Q; (...); Cho, JH Apr 6 2016 ADVANCED MATERIALS ▼ 28 (13) , pp.2601+	86	63	57	44	29	54.4	544
8	Enhancement of field-effect mobility due to surface-mediated molecular ordering in regioregular polythiophene thin film transistors Kim, DH; Park, YD; (...); Cho, KW Jan 2005 ADVANCED FUNCTIONAL MATERIALS ▼ 15 (1) , pp.77-82	16	12	7	8	2	20.86	438
9	Highly Sensitive and Multimodal All-Carbon Skin Sensors Capable of Simultaneously Detecting Tactile and Biological Stimuli Kim, SY; Park, S; (...); Kim, DH Jul 22 2015 ADVANCED MATERIALS ▼ 27 (28) , pp.4178-4185	44	41	38	26	10	35.18	387
10	High-mobility organic transistors based on single-crystalline microribbons of triisopropylsilylethynyl pentacene via solution-phase self-assembly Kim, DH; Lee, DY; (...); Cho, K Mar 5 2007 ADVANCED MATERIALS ▼ 19 (5) , pp.678+	8	8	3	4	2	17.37	330
11	Single-crystal polythiophene microwires grown by self-assembly Kim, DH; Han, JT; (...); Cho, K	8	8	7	8	4	13.4	268

	Mar 17 2006 ADVANCED MATERIALS ▼ 18 (6) , pp.719-+							
⊖ 12	<p>Liquid-Crystalline Semiconducting Copolymers with Intramolecular Donor-Acceptor Building Blocks for High-Stability Polymer Transistors</p> <p>Kim, DH; Lee, BL; (...); Bao, Z</p> <p>May 6 2009 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY ▼ 131 (17) , pp.6124-6132</p>	8	7	5	7	0	12.71	216
⊖ 13	<p>Effect of the phase states of self-assembled monolayers on pentacene growth and thin-film transistor characteristics</p> <p>Lee, HS; Kim, DH; (...); Cho, K</p> <p>Aug 13 2008 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY ▼ 130 (32) , pp.10556-10564</p>	11	8	8	3	3	12	216
⊖ 14	<p>An Ultrasensitive, Visco-Poroelastic Artificial Mechanotransducer Skin Inspired by Piezo2 Protein in Mammalian Merkel Cells</p> <p>Jin, ML; Park, S; (...); Kim, DH</p> <p>Apr 4 2017 ADVANCED MATERIALS ▼ 29 (13)</p>	33	31	30	25	19	21.67	195
⊖ 15	<p>Transparent, Low-Power Pressure Sensor Matrix Based on Coplanar-Gate Graphene Transistors</p> <p>Sun, Q; Kim, DH; (...); Cho, JH</p> <p>Jul 16 2014 ADVANCED MATERIALS ▼ 26 (27) , pp.4735-+</p>	20	13	14	7	6	16.17	194
⊖ 16	<p>A bioinspired hydrogen bond-triggered ultrasensitive ionic mechanoreceptor skin</p> <p>Amoli, V; Kim, JS; (...); Kim, DH</p> <p>Sep 5 2019 NATURE COMMUNICATIONS ▼ 10</p>	36	32	36	42	35	27.43	192
⊖ 17	<p>Waterproof, Highly Tough, and Fast Self-Healing Polyurethane for Durable Electronic Skin</p> <p>Ying, WB; Yu, Z; (...); Li, RW</p> <p>Mar 4 2020 ACS APPLIED MATERIALS & INTERFACES ▼ 12 (9) , pp.11072-11083</p>	34	34	49	42	22	31.33	188
⊖ 18	<p>Ionic Tactile Sensors for Emerging Human-Interactive Technologies: A Review of Recent Progress</p> <p>Amoli, V; Kim, JS; (...); Kim, D</p>	36	37	44	34	15	28.33	170

	May 2020 ADVANCED FUNCTIONAL MATERIALS ▼ 30 (20)							
19	<p>25th Anniversary Article: Microstructure Dependent Bias Stability of Organic Transistors</p> <p>Lee, WH; Choi, HH; (...); Cho, K</p> <p>Mar 2014 ADVANCED MATERIALS ▼ 26 (11) , pp.1660-1680</p>	13	11	14	9	4	14.08	169
20	<p>Effect of side chain length on molecular ordering and field-effect mobility in poly(3-alkylthiophene) transistors</p> <p>Park, YD; Kim, DH; (...); Cho, K</p> <p>Dec 2006 ORGANIC ELECTRONICS ▼ 7 (6) , pp.514-520</p>	5	5	9	4	2	7.3	146
21	<p>Low-voltage and high-field-effect mobility organic transistors with a polymer insulator - art. no. 072101</p> <p>Jang, Y; Kim, DH; (...); Cho, KW</p> <p>Feb 13 2006 APPLIED PHYSICS LETTERS ▼ 88 (7)</p>	2	6	1	2	0	6.8	136
22	<p>Solvent vapor-induced nanowire formation in poly(3-hexylthiophene) thin films</p> <p>Kim, DH; Park, YD; (...); Cho, K</p> <p>May 19 2005 MACROMOLECULAR RAPID COMMUNICATIONS ▼ 26 (10) , pp.834-839</p>	0	3	4	0	0	6.29	132
23	<p>Tunable crystal nanostructures of pentacene thin films on gate dielectrics possessing surface-order control</p> <p>Kim, DH; Lee, HS; (...); Cho, K</p> <p>May 9 2008 ADVANCED FUNCTIONAL MATERIALS ▼ 18 (9) , pp.1363-1370</p>	8	1	1	1	5	7.17	129
24	<p>Solution-processable pentacene microcrystal arrays for high performance organic field-effect transistors</p> <p>Lee, WH; Kim, DH; (...); Cho, K</p> <p>Mar 26 2007 APPLIED PHYSICS LETTERS ▼ 90 (13)</p>	2	6	2	0	1	6.42	122
25	<p>A Highly Sensitive Tactile Sensor Using a Pyramid-Plug Structure for Detecting Pressure, Shear Force, and Torsion</p> <p>Choi, D; Jang, S; (...); Kwon, JY</p> <p>Mar 2019 ADVANCED MATERIALS TECHNOLOGIES ▼ 4 (3)</p>	21	21	17	28	7	16	112

26	<p>Universal three-dimensional crosslinker for all-photopatterned electronics</p> <p>Kim, M.J.; Lee, M.; (...); Cho, J.H.</p> <p>Mar 23 2020 NATURE COMMUNICATIONS ▼ 11 (1)</p>	13	15	21	31	24	18	108
27	<p>Flexible piezocapacitive sensors based on wrinkled microstructures: toward low-cost fabrication of pressure sensors over large areas</p> <p>Baek, S.; Jang, H.; (...); Lee, H.S.</p> <p>2017 RSC ADVANCES ▼ 7 (63) , pp.39420-39426</p>	24	12	20	20	1	11.33	102
28	<p>The Influence of the Solvent Evaporation Rate on the Phase Separation and Electrical Performances of Soluble Acene-Polymer Blend Semiconductors</p> <p>Lee, W.H.; Kwak, D.; (...); Cho, K.</p> <p>Jan 25 2012 ADVANCED FUNCTIONAL MATERIALS ▼ 22 (2) , pp.267-281</p>	4	14	3	8	2	7.14	100
29	<p>Two modes of transformation of amorphous calcium carbonate films in air</p> <p>Xu, X.; Han, J.T.; (...); Cho, K.</p> <p>Feb 16 2006 JOURNAL OF PHYSICAL CHEMISTRY B ▼ 110 (6) , pp.2764-2770</p>	4	5	4	10	4	5	100
30	<p>Controlled one-dimensional nanostructures in poly(3-hexylthiophene) thin film for high-performance organic field-effect transistors</p> <p>Kim, D.H.; Jang, Y.; (...); Cho, K.</p> <p>Aug 17 2006 JOURNAL OF PHYSICAL CHEMISTRY B ▼ 110 (32) , pp.15763-15768</p>	2	0	1	2	0	4.95	99
31	<p>An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte</p> <p>Jin, M.L.; Park, S.; (...); Jung, H.T.</p> <p>May 17 2018 ADVANCED MATERIALS ▼ 30 (20)</p>	18	14	16	13	7	12	96
32	<p>Surface-induced conformational changes in poly(3-hexylthiophene) monolayer films</p> <p>Kim, D.H.; Jang, Y.; (...); Cho, K.</p> <p>Apr 12 2005 LANGMUIR ▼ 21 (8) , pp.3203-3206</p>	5	1	2	1	0	4.57	96

<p>Low-power, deformable, dynamic multicolor electrochromic skin</p> <p>33 Koo, J; Amoli, V; (...); Kim, DH Dec 2020 NANO ENERGY ▼ 78</p> <p>★ Enriched Cited References</p>	12	12	19	28	21	15.33	92
<p>An Ultra-Mechanosensitive Visco-Poroelastic Polymer Ion Pump for Continuous Self-Powering Kinematic Triboelectric Nanogenerators</p> <p>34 Hwang, HJ; Kim, JS; (...); Choi, D May 2019 ADVANCED ENERGY MATERIALS ▼ 9 (17)</p>	13	14	20	13	8	13	91
<p>Thiol-ene Cross-Linked Polymer Gate Dielectrics for Low-Voltage Organic Thin-Film Transistors</p> <p>35 Wang, C; Lee, WY; (...); Bao, ZA Dec 10 2013 CHEMISTRY OF MATERIALS ▼ 25 (23) , pp.4806-4812</p>	2	6	7	3	1	6.92	90
<p>Effects of metal penetration into organic semiconductors on the electrical properties of organic thin film transistors</p> <p>36 Cho, JH; Kim, DH; (...); Cho, K Sep 25 2006 APPLIED PHYSICS LETTERS ▼ 89 (13)</p>	2	6	3	1	0	4.4	88
<p>Visco-Poroelastic Electrochemiluminescence Skin with Piezo-Ionic Effect</p> <p>37 Lee, JI; Choi, H; (...); Kang, MS Jul 2021 ADVANCED MATERIALS ▼ 33 (29)</p>	8	26	31	16	5	17.2	86
<p>Effects of the permanent dipoles of self-assembled monolayer-treated insulator surfaces on the field-effect mobility of a pentacene thin-film transistor</p> <p>38 Jang, Y; Cho, JH; (...); Cho, K Mar 26 2007 APPLIED PHYSICS LETTERS ▼ 90 (13)</p>	4	3	1	0	1	4.47	85

39	<p>Ultrafast, autonomous self-healable iontronic skin exhibiting piezo-ionic dynamics</p> <p>Boahen, EK; Pan, B; (...); Kim, DH</p> <p>Dec 12 2022 NATURE COMMUNICATIONS ▼ 13 (1)</p> <p>★ Enriched Cited References</p>	0	0	19	35	29	20.75	83
40	<p>Solvent effect of inkjet printed source/drain electrodes on electrical properties of polymer thin-film transistors</p> <p>Lim, JA; Cho, JH; (...); Cho, K</p> <p>Feb 20 2006 APPLIED PHYSICS LETTERS ▼ 88 (8)</p>	0	1	0	1	1	4.15	83
41	<p>A Self-Healing and Ionic Liquid Affiliative Polyurethane toward a Piezo 2 Protein Inspired Ionic Skin</p> <p>Chen, C; Ying, WB; (...); Zhu, J</p> <p>Jan 2022 ADVANCED FUNCTIONAL MATERIALS ▼ 32 (4)</p>	0	18	23	25	16	16.4	82
42	<p>Multifunctional Smart Textronics with Blow-Spun Nonwoven Fabrics</p> <p>Ho, DH; Cheon, S; (...); Cho, JH</p> <p>Jun 2019 ADVANCED FUNCTIONAL MATERIALS ▼ 29 (24)</p>	18	14	14	10	6	11.57	81
43	<p>Comparison of the Photovoltaic Characteristics and Nanostructure of Fullerenes Blended with Conjugated Polymers with Siloxane-Terminated and Branched Aliphatic Side Chains</p> <p>Kim, DH; Ayzner, AL; (...); Bao, ZA</p> <p>Feb 12 2013 CHEMISTRY OF MATERIALS ▼ 25 (3) , pp.431-440</p>	2	3	1	2	0	5.92	77
44	<p>Biomimetics for high-performance flexible tactile sensors and advanced artificial sensory systems</p> <p>Amoli, V; Kim, SY; (...); Kim, DH</p> <p>Dec 21 2019 JOURNAL OF MATERIALS CHEMISTRY C ▼ 7 (47) , pp.14816-14844</p>	19	21	16	10	5	10.71	75
45	<p>Change of molecular ordering in soluble acenes via solvent annealing and its effect on field-effect mobility</p> <p>Lee, WH; Kim, DH; (...); Choa, K</p> <p>Aug 27 2007 APPLIED PHYSICS LETTERS ▼ 91 (9)</p>	1	2	0	2	0	3.84	73

<div> <div>46</div> <div> <div>Layered molecular ordering of self-organized poly(3-hexylthiophene) thin films on hydrophobized surfaces</div> <div> Kim, DH; Jang, Y; (...); Cho, K </div> <div>Aug 22 2006 MACROMOLECULES ▼ 39 (17) , pp.5843-5847</div> </div> </div>	3	1	1	0	1	3.55	71
<div> <div>47</div> <div> <div>Influence of the dielectric constant of a polyvinyl phenol insulator on the field-effect mobility of a pentacene-based thin-film transistor - art. no. 152105</div> </div> </div>	2	1	0	2	1	3.24	68

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46	<p>Layered molecular ordering of self-organized poly(3-hexylthiophene) thin films on hydrophobized surfaces</p> <p>Kim, DH; Jang, Y; (...); Cho, K Aug 22 2006 MACROMOLECULES ▾ 39 (17) , pp.5843-5847</p>	3	1	1	0	1	3.55	71
47	<p>Influence of the dielectric constant of a polyvinyl phenol insulator on the field-effect mobility of a pentacene-based thin-film transistor - art. no. 152105</p> <p>Jang, Y; Kim, DH; (...); Cho, KW Oct 10 2005 APPLIED PHYSICS LETTERS ▾ 87 (15)</p>	2	1	0	2	1	3.24	68
48	<p>Fabrication and Evaluation of Solution-Processed Reduced Graphene Oxide Electrodes for p- and n-Channel Bottom-Contact Organic Thin-Film Transistors</p> <p>Becerril, HA; Stoltenberg, RM; (...); Bao, ZA Nov 2010 ACS NANO ▾ 4 (11) , pp.6343-6352</p>	1	1	0	1	0	4.06	65
49	<p>Low-voltage polymer thin-film transistors with a self-assembled monolayer as the gate dielectric</p> <p>Park, YD; Kim, DH; (...); Cho, K Dec 12 2005 APPLIED PHYSICS LETTERS ▾ 87 (24)</p>	1	2	0	0	1	3.1	65
50	<p>Highly Sensitive Flexible Pressure Sensors Based on Printed Organic Transistors with Centro-Apically Self-Organized Organic Semiconductor Microstructures</p> <p>Yeo, SY; Park, S; (...); Lim, JA Dec 13 2017 ACS APPLIED MATERIALS & INTERFACES ▾ 9 (49) , pp.42996-43003</p>	8	14	4	9	4	6.89	62

54	<p>Enhancement of interconnectivity in the channels of pentacene thin-film transistors and its effect on field-effect mobility</p> <p>Lee, HS; Kim, DH; (...); Cho, K</p> <p>Sep 18 2006 ADVANCED FUNCTIONAL MATERIALS ▼ 16 (14) , pp.1859-1864</p>							
55	<p>Crack-Enhanced Microfluidic Stretchable E-Skin Sensor</p> <p>Ho, DH; Song, R; (...); Cho, JH</p> <p>Dec 27 2017 ACS APPLIED MATERIALS & INTERFACES ▼ 9 (51) , pp.44678-44686</p>	8	13	6	4	3	6.11	55
56	<p>Scalable Superior Chemical Sensing Performance of Stretchable Ionotronic Skin via a π-Hole Receptor Effect</p> <p>Jin, ML; Park, S; (...); Kim, D</p> <p>Apr 2021 ADVANCED MATERIALS ▼ 33 (13)</p> <p>★ Enriched Cited References</p>	7	16	10	13	8	10.8	54
57	<p>Graphene surface induced specific self-assembly of poly(3-hexylthiophene) for nanohybrid optoelectronics: from first-principles calculation to experimental characterizations</p> <p>Kim, DH; Lee, HS; (...); Choi, JY</p> <p>2013 SOFT MATTER ▼ 9 (22) , pp.5355-5360</p>	6	3	1	2	0	3.85	50
58	<p>Biomimetic fabrication of vaterite film from amorphous calcium carbonate on polymer melt: Effect of polymer chain mobility and functionality</p> <p>Han, JT; Xu, XR; (...); Cho, KW</p> <p>Jan 11 2005 CHEMISTRY OF MATERIALS ▼ 17 (1) , pp.136-141</p>	1	3	0	0	0	2.38	50
59	<p>Enhanced Sensitivity of Iontronic Graphene Tactile Sensors Facilitated by Spreading of Ionic Liquid Pinned on Graphene Grid</p> <p>Kim, JS; Lee, SC; (...); Lee, WH</p> <p>Apr 2020 ADVANCED FUNCTIONAL MATERIALS ▼ 30 (14)</p> <p>★ Enriched Cited References</p>	14	11	12	4	6	8.17	49
60	<p>Ultrafast Electron Transfer at Organic Semiconductor Interfaces: Importance of Molecular Orientation</p> <p>Ayzner, AL; Nordlund, D; (...); Toney, MF</p> <p>Jan 1 2015 JOURNAL OF PHYSICAL CHEMISTRY LETTERS ▼ 6 (1) , pp.6-12</p>	1	3	1	2	1	4.45	49

61	Phase state effect on adhesion behavior of self-assembled monolayers Lee, DH ; Kim, D ; (...); Cho, M Sep 14 2004 LANGMUIR ▼ 20 (19), pp.8124-8130	0	0	0	2	0	2.23	49
62	Ultrafast underwater self-healing piezo-ionic elastomer via dynamic hydrophobic-hydrolytic domains Kong, Z ; Boahen, EK ; (...); Kim, D Mar 8 2024 NATURE COMMUNICATIONS ▼ 15 (1) Enriched Cited References	0	0	0	27	21	24	48
63	Tailoring Morphology and Structure of Inkjet-Printed Liquid-Crystalline Semiconductor/Insulating Polymer Blends for High-Stability Organic Transistors Kwak, D ; Choi, HH ; (...); Cho, K May 10 2016 ADVANCED FUNCTIONAL MATERIALS ▼ 26 (18), pp.3003-3011	9	4	6	6	1	4.7	47
64	Thin Films of Highly Planar Semiconductor Polymers Exhibiting Band-like Transport at Room Temperature Lee, J ; Chung, JW ; (...); Kang, MS Jul 1 2015 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY ▼ 137 (25), pp.7990-7993	2	6	2	3	1	4.27	47
65	High-Performance Stable <i>n</i> -Type Indenofluorenedione Field-Effect Transistors Park, YI ; Lee, JS ; (...); Park, JW Sep 13 2011 CHEMISTRY OF MATERIALS ▼ 23 (17), pp.4038-4044	0	4	2	1	0	3.07	46
66	Highly Stretchable, High-Mobility, Free-Standing All-Organic Transistors Modulated by Solid-State Elastomer Electrolytes Park, DH ; Park, HW ; (...); Kim, DH May 2 2019 ADVANCED FUNCTIONAL MATERIALS ▼ 29 (18)	10	9	7	8	1	6.43	45
67	Enhancement of field-effect mobility and stability of poly(3-hexylthiophene) field-effect transistors by conformational change Park, YD ; Kim, DH ; (...); Cho, K Feb 7 2008 JOURNAL OF PHYSICAL CHEMISTRY C ▼ 112 (5), pp.1705-1710	0	2	0	1	0	2.5	45

68	High Resolution a-IGZO TFT Pixel Circuit for Compensating Threshold Voltage Shifts and OLED Degradations Kim, D ; Kim, Y ; (...); Lee, H Sep 2017 IEEE JOURNAL OF THE ELECTRON DEVICES SOCIETY ▼ 5 (5), pp.372-377	4	8	5	8	6	4.78	43
69	Polymer Brush As a Facile Dielectric Surface Treatment for High-Performance, Stable, Soluble Acene-Based Transistors Park, K ; Park, SH ; (...); Cho, JH Sep 28 2010 CHEMISTRY OF MATERIALS ▼ 22 (18), pp.5377-5382	1	2	1	2	0	2.63	42
70	Room-temperature self-organizing characteristics of soluble acene field-effect transistors Lee, WH ; Lim, JA ; (...); Cho, K Feb 22 2008 ADVANCED FUNCTIONAL MATERIALS ▼ 18 (4), pp.560-565	3	2	0	2	0	2.17	39
71	Energy-level alignment at interfaces between gold and poly(3-hexylthiophene) films with two different molecular structures Park, YD ; Cho, JH ; (...); Cho, K 2006 ELECTROCHEMICAL AND SOLID STATE LETTERS ▼ 9 (11), pp.G317-G319	0	0	0	0	0	1.95	39
72	Piezopotential-Programmed Multilevel Nonvolatile Memory As Triggered by Mechanical Stimuli Sun, Q ; Ho, DH ; (...); Cho, JH Dec 2016 ACS NANO ▼ 10 (12), pp.11037-11043	6	3	5	2	3	3.8	38
73	Mosaic, single-crystal CaCO ₃ thin films fabricated on modified polymer templates Han, JT ; Xu, XR ; (...); Cho, K Mar 2005 ADVANCED FUNCTIONAL MATERIALS ▼ 15 (3), pp.475-480	0	2	0	0	0	1.81	38
74	Conformable and ionic textiles using sheath-core carbon nanotube microyarns for highly sensitive and reliable pressure sensors Kim, SY ; Jee, E ; (...); Kim, DH 2017 RSC ADVANCES ▼ 7 (38), pp.23820-23826	7	5	3	6	5	4.11	37
		5	4	5	1	2	4.5	24 36

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75	<p>Ultrasensitive, Low-Power Oxide Transistor-Based Mechanotransducer with Microstructured, Deformable Ionic Dielectrics</p> <p>Jang, S; Jee, E; (...); Kwon, JY</p> <p>Sep 19 2018 ACS APPLIED MATERIALS & INTERFACES ▼ 10 (37) , pp.31472-31479</p>							
76	<p>Solvent-Free Processable and Photo-Patternable Hybrid Gate Dielectric for Flexible Top-Gate Organic Field-Effect Transistors</p> <p>Kwon, JS; Park, HW; (...); Kwark, YJ</p> <p>Feb 15 2017 ACS APPLIED MATERIALS & INTERFACES ▼ 9 (6) , pp.5366-5374</p>	4	3	4	10	2	3.89	35
77	<p>Influence of Dielectric Layers on Charge Transport through Diketopyrrolopyrrole-Containing Polymer Films: Dielectric Polarizability vs Capacitance</p> <p>Lee, J; Chung, JW; (...); Kang, MS</p> <p>Nov 9 2016 ACS APPLIED MATERIALS & INTERFACES ▼ 8 (44) , pp.30344-30350</p>	7	2	4	2	3	3.3	33
78	<p>Ion trap and release dynamics enables nonintrusive tactile augmentation in monolithic sensory neuron</p> <p>Kweon, H; Kim, JS; (...); Kim, D</p> <p>Oct 20 2023 SCIENCE ADVANCES ▼ 9 (42)</p>	0	0	0	13	19	10.67	32
79	<p>Electroplated core-shell nanowire network electrodes for highly efficient organic light-emitting diodes</p> <p>Kang, H; Kim, JS; (...); Cho, JH</p> <p>Jan 5 2022 NANO CONVERGENCE ▼ 9 (1)</p> <p>☰ Enriched Cited References</p>	0	10	6	11	5	8	32
80	<p>High-Mobility Organic Single-Crystal Microtubes of Soluble Pentacene Semiconductors with Hollow Tetragonal Structures</p> <p>Kim, DH; Lee, DY; (...); Cho, K</p> <p>Jul 24 2012 CHEMISTRY OF MATERIALS ▼ 24 (14) , pp.2752-2756</p>	4	1	1	0	1	2.29	32
81	<p>Neural-inspired artificial synapses based on low-voltage operated organic electrochemical transistors</p> <p>Bhunia, R; Boahen, EK; (...); Kim, DH</p> <p>Jun 15 2023 JOURNAL OF MATERIALS CHEMISTRY C ▼ 11 (23) , pp.7485-7509</p>	0	0	1	22	7	10	30

82	<p>Design of a Polymer-Carbon Nanohybrid Junction by Interface Modeling for Efficient Printed Transistors</p> <p>Kim, DH; Shin, HJ; (...); Kim, JM</p> <p>Jan 2012 ACS NANO ▼ 6 (1) , pp.662-670</p>	0	3	1	1	1	2.14	30
83	<p>Influence of Alkyl Side Chain on the Crystallinity and Trap Density of States in Thiophene and Thiazole Semiconducting Copolymer Based Inkjet-Printed Field-Effect Transistors</p> <p>Lee, J; Chung, JW; (...); Kim, DH</p> <p>May 14 2013 CHEMISTRY OF MATERIALS ▼ 25 (9) , pp.1927-1934</p>	0	1	2	3	0	2.23	29
84	<p>Unveiling Viscoelastic Response of Capacitive-type Pressure Sensor by Controlling Cross-Linking Density and Surface Structure of Elastomer</p> <p>Hwang, J; Lee, SG; (...); Lee, WH</p> <p>Jun 2020 ACS APPLIED POLYMER MATERIALS ▼ 2 (6) , pp.2190-2198</p>	7	4	9	4	2	4.67	28
85	<p>Universal Route to Impart Orthogonality to Polymer Semiconductors for Sub-Micrometer Tandem Electronics</p> <p>Park, HW; Choi, KY; (...); Kim, D</p> <p>Jul 2019 ADVANCED MATERIALS ▼ 31 (28)</p> <p>☰★ Enriched Cited References</p>	9	5	1	5	5	4	28
86	<p>Metal nanowire-polymer matrix hybrid layer for triboelectric nanogenerator</p> <p>Kang, H; Kim, HT; (...); Cho, JH</p> <p>4th International Conference on Nanogenerator and Piezotronics (NGPT)</p> <p>Apr 2019 NANO ENERGY ▼ 58 , pp.227-233</p>	2	7	1	6	3	3.86	27
87	<p>Enhanced device performance of organic solar cells via reduction of the crystallinity in the donor polymer</p> <p>Park, JH; Park, JI; (...); Cho, K</p> <p>2010 JOURNAL OF MATERIALS CHEMISTRY ▼ 20 (28) , pp.5860-5865</p>	0	0	0	0	0	1.63	26
88	<p>Deformable Ionic Polymer Artificial Mechanotransducer with an Interpenetrating Nanofibrillar Network</p> <p>Kim, SY; Kim, Y; (...); Kim, DH</p> <p>Aug 14 2019 ACS APPLIED MATERIALS & INTERFACES ▼ 11 (32) , pp.29350-29359</p>	5	0	6	6	3	3.43	24

89	Enhanced electrical stability of organic thin-film transistors with polymer semiconductor-insulator blended active layers Lee, J ; Jung, JY ; (...); Lee, S Feb 20 2012 APPLIED PHYSICS LETTERS ▼ 100 (8)	2	2	1	0	1	1.71	24
90	Molecular Weight-Induced Structural Transition of Liquid-Crystalline Polymer Semiconductor for High-Stability Organic Transistor Kim, DH ; Lee, J ; (...); Lee, S Dec 6 2011 ADVANCED FUNCTIONAL MATERIALS ▼ 21 (23) , pp.4442-4447	1	0	0	0	2	1.47	22
91	High Performance Organic Thin-Film Transistor based on Amorphous A, B-Alternating Poly(arylenevinylene) Copolymers Choi, TL ; Han, KM ; (...); Lee, S Jul 27 2010 MACROMOLECULES ▼ 43 (14) , pp.6045-6049	1	1	0	1	0	1.38	22
92	Non-von Neumann multi-input spike signal processing enabled by an artificial synaptic multiplexer Ho, DH ; Roe, DG ; (...); Cho, JH Jun 24 2022 SCIENCE ADVANCES ▼ 8 (25)	0	1	6	11	3	5.25	21
93	Microfluidic Arrays for Rapid Characterization of Organic Thin-Film Transistor Performance Bettinger, CJ ; Becerril, HA ; (...); Bao, ZA Mar 2011 ADVANCED MATERIALS ▼ 23 (10) , pp.1257+	0	1	0	1	1	1.33	20
94	Ferroelectric ion gel-modulated long-term plasticity in organic synaptic transistors Bhunia, R ; Kim, JS ; (...); Kim, D Aug 1 2022 MATERIALS CHEMISTRY AND PHYSICS ▼ 287	0	1	5	8	4	4.5	18
95	All-Printed Electronic Skin Based on Deformable and Ionic Mechanotransducer Array Kim, JS ; Choi, H ; (...); Kim, D Nov 2020 MACROMOLECULAR BIOSCIENCE ▼ 20 (11)	4	1	6	2	3	3	18
	Transmembrane Inspired Mechano-Responsive Elastomers with Synergized Traction-Assisted Healing and Dual-Channel	0	0	0	3	14	8.5	17

96	Sensing Chen, C ; Yu, Z ; (...); Ying, WB Sep 2024 ADVANCED FUNCTIONAL MATERIALS ▾ 34 (37)							
97	Changes in academic performance in the online, integrated system-based curriculum implemented due to the COVID-19 pandemic in a medical school in Korea Kim, DH ; Lee, HJ ; (...); Kang, YJ Sep 23 2021 JOURNAL OF EDUCATIONAL EVALUATION FOR HEALTH PROFESSIONS ▾ 18 <div>★ Enriched Cited References</div>	1	3	4	7	2	3.4	17
98	B-cell-activating factor is a regulator of adipokines and a possible mediator between adipocytes and macrophages Kim, MY ; Kim, DH and Do, MS Jan 2013 EXPERIMENTAL AND MOLECULAR MEDICINE ▾ 45	2	1	1	1	1	1.31	17

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96	<p>Transmembrane Inspired Mechano-Responsive Elastomers with Synergized Traction-Assisted Healing and Dual-Channel Sensing</p> <p>Chen, C; Yu, Z; (...); Ying, WB</p> <p>Sep 2024 ADVANCED FUNCTIONAL MATERIALS ▾ 34 (37)</p> <p>Enriched Cited References</p>	0	0	0	3	14	8.5	17
97	<p>Changes in academic performance in the online, integrated system-based curriculum implemented due to the COVID-19 pandemic in a medical school in Korea</p> <p>Kim, DH; Lee, HJ; (...); Kang, YJ</p> <p>Sep 23 2021 JOURNAL OF EDUCATIONAL EVALUATION FOR HEALTH PROFESSIONS ▾ 18</p> <p>Enriched Cited References</p>	1	3	4	7	2	3.4	17
98	<p>B-cell-activating factor is a regulator of adipokines and a possible mediator between adipocytes and macrophages</p> <p>Kim, MY; Kim, DH and Do, MS</p> <p>Jan 2013 EXPERIMENTAL AND MOLECULAR MEDICINE ▾ 45</p>	2	1	1	1	1	1.31	17
99	<p>Ions-Silica Percolated Ionic Dielectric Elastomer Actuator for Soft Robots</p> <p>Choi, H; Kim, Y; (...); Kim, D</p> <p>Nov 2023 ADVANCED SCIENCE ▾ 10 (32)</p> <p>Enriched Cited References</p>	0	0	0	8	8	5.33	16
100	<p>Tetrabranched Photo-Crosslinker Enables Micrometer-Scale Patterning of Light-Emitting Super Yellow for High-Resolution OLEDs</p> <p>Jang, W; Lee, M; (...); Kang, MS</p> <p>Aug 18 2021 ACS PHOTONICS ▾ 8 (8) , pp.2519-2528</p> <p>Enriched Cited References</p>	0	4	5	3	4	3.2	16

104	Impact of Energetically Engineered Dielectrics on Charge Transport in Vacuum-Deposited Bis(triisopropylsilylethynyl)pentacene Kim, SH ; Lee, J ; (...); Lee, HS Dec 31 2015 JOURNAL OF PHYSICAL CHEMISTRY C ▾ 119 (52) , pp.28819-28827							
105	Biocompatible Electronic Skins for Cardiovascular Health Monitoring Du, YC ; Kim, JH ; (...); Wang, Y Jun 2024 ADVANCED HEALTHCARE MATERIALS ▾ 13 (16)	0	0	0	6	7	6.5	13
106	Reactive metal contact at indium-tin-oxide/self-assembled monolayer interfaces Cho, JH ; Park, YD ; (...); Cho, KW Mar 6 2006 APPLIED PHYSICS LETTERS ▾ 88 (10)	0	0	0	0	0	0.65	13
107	Thermotropic Phase Transition of Benzodithiophene Copolymer Thin Films and Its Impact on Electrical and Photovoltaic Characteristics Ko, S ; Kim, DH ; (...); Bao, ZN Feb 24 2015 CHEMISTRY OF MATERIALS ▾ 27 (4) , pp.1223-1232	0	2	0	0	0	1.09	12
108	Highly Reliable 3D Channel Memory and Its Application in a Neuromorphic Sensory System for Hand Gesture Recognition Kim, D ; Lee, CB ; (...); Park, HJ Dec 7 2023 ACS NANO ▾ 17 (24) , pp.24826-24840  Enriched Cited References	0	0	0	7	4	3.67	11
109	Low-Voltage Organic Transistors with Carrier Mobilities over 10 cm ² V ⁻¹ s ⁻¹ Using Six-Branched Organic Azide Lee, MYJ ; Choi, BI ; (...); Kim, B Nov 17 2022 CHEMISTRY OF MATERIALS ▾ 34 (23) , pp.10409-10423	0	0	2	2	7	2.75	11
110	Directed self-assembly of organic semiconductors via confined evaporative capillary flows for use in organic field-effect transistors Kim, DH ; Lim, JA ; (...); Cho, JH Oct 2014 ORGANIC ELECTRONICS ▾ 15 (10) , pp.2322-2327	1	1	1	0	1	0.83	10

111	<p>Ionic liquid with hydrogen bonding reducing leakage charge for enhancing triboelectric performance</p> <p>Hwang, HJ; Kim, KY; (...); Choi, D</p> <p>Jun 15 2024 NANO ENERGY ▾ 125</p> <p>★ Enriched Cited References</p>	0	0	0	1	8	4.5	9
112	<p>A bio-based, sweat-resistant and markedly sensitive iontronic skin for advancing central sleep apnea monitoring</p> <p>Li, FL; Kong, ZY; (...); Bin Ying, W</p> <p>May 1 2024 CHEMICAL ENGINEERING JOURNAL ▾ 487</p> <p>★ Enriched Cited References</p>	0	0	0	2	7	4.5	9
113	<p>Intense-pulsed-UV-converted perhydropolysilazane gate dielectrics for organic field-effect transistors and logic gates</p> <p>Back, HS; Kim, MJ; (...); Cho, JH</p> <p>Jan 24 2019 RSC ADVANCES ▾ 9 (6) , pp.3169-3175</p>	2	2	1	2	0	1.29	9
114	<p>Effect of Curing Conditions of a Poly(4-vinylphenol) Gate Dielectric on the Performance of a Pentacene-based Thin Film Transistor</p> <p>Hwang, M; Lee, HS; (...); Cho, K</p> <p>Jun 2009 MACROMOLECULAR RESEARCH ▾ 17 (6) , pp.436-440</p>	1	0	0	0	0	0.53	9
115	<p>Design of Wavy Ag Microwire Array for Mechanically Stable, Multimodal Vibrational Haptic Interface</p> <p>Kang, J; Park, JH; (...); Cho, JH</p> <p>Aug 2019 ADVANCED FUNCTIONAL MATERIALS ▾ 29 (35)</p>	2	1	2	1	0	1.14	8
116	<p>Bio-Inspired Neuromorphic Sensory Systems from Intelligent Perception to Nervetronics</p> <p>Boahen, EK; Kweon, H; (...); Kim, D</p> <p>Jan 2025 ADVANCED SCIENCE ▾ 12 (1)</p>	0	0	0	0	7	3.5	7

117	<p>Exciton-Scissoring Perfluoroarenes Trigger Photomultiplication in Full Color Organic Image Sensors</p> <p>Kim, J; Kweon, H; (...); Chung, DS</p> <p>Nov 2023 ADVANCED MATERIALS ▼ 35 (45)</p> <p>★ Enriched Cited References</p>	0	0	0	1	6	2.33	7
118	<p>Interpenetrating Polymer Semiconductor Nanonetwork Channel for Ultrasensitive, Selective, and Fast Recovered Chemodetection</p> <p>Kim, J; Kweon, H; (...); Kim, D</p> <p>Dec 9 2020 ACS APPLIED MATERIALS & INTERFACES ▼ 12 (49) , pp.55107-55115</p>	2	1	2	0	2	1.17	7
119	<p>Characterization of bias stress induced electrical instability in liquid-crystalline semiconducting polymer thin-film transistors</p> <p>Lee, J; Kim, DH; (...); Lee, S</p> <p>Oct 15 2011 JOURNAL OF APPLIED PHYSICS ▼ 110 (8)</p>	0	1	0	0	1	0.47	7
120	<p>Skin-inspired electrochemical tactility and luminescence</p> <p>Kim, T; Choi, H; (...); Jeong, U</p> <p>May 20 2022 ELECTROCHIMICA ACTA ▼ 415</p> <p>★ Enriched Cited References</p>	0	1	4	1	0	1.5	6
121	<p>Electrical transport characteristics of chemically robust PDPP-DTT embedded in a bridged silsesquioxane network</p> <p>Shin, J; Park, HW; (...); Kang, MS</p> <p>Dec 21 2019 JOURNAL OF MATERIALS CHEMISTRY C ▼ 7 (47) , pp.14889-14896</p>	4	0	0	1	0	0.86	6
122	<p>Crystalline nanostructure and morphology of TriF-IF-dione for high-performance stable n-type field-effect transistors</p> <p>Kim, BJ; Park, YI; (...); Cho, JH</p> <p>2012 JOURNAL OF MATERIALS CHEMISTRY ▼ 22 (29) , pp.14617-14623</p>	0	1	1	0	0	0.43	6

123	<p>Implantable Multi-Cross-Linked Membrane-Ionogel Assembly for Reversible Non-Faradaic Neurostimulation</p> <p>Kim, JS; Kim, J; (...); Kim, D</p> <p>Jul 27 2023 ACS NANO ▼ 17 (15) , pp.14706-14717</p> <p>★ Enriched Cited References</p>	0	0	0	4	1	1.67	5
124	<p>Wireless-Powered VOCs Sensor Based on Energy-Harvesting Metamaterial</p> <p>Lee, W; Park, H; (...); Lee, H</p> <p>May 2021 ADVANCED ELECTRONIC MATERIALS ▼ 7 (5)</p> <p>★ Enriched Cited References</p>	0	2	2	1	0	1	5
125	<p>Interfacial Iontronics in Bioelectronics: From Skin-Attachable to Implantable Devices</p> <p>Boahen, EK; Kim, JH; (...); Kim, D</p> <p>Jul 2025 KOREAN JOURNAL OF CHEMICAL ENGINEERING ▼ 42 (9) , pp.1993-2009</p>	0	0	0	0	4	2	4
126	<p>Multiplexed Complementary Signal Transmission for a Self-Regulating Artificial Nervous System</p> <p>Choi, YJ; Roe, DG; (...); Choi, JH</p> <p>Jan 25 2023 ADVANCED SCIENCE ▼ 10 (3)</p> <p>★ Enriched Cited References</p>	0	0	1	3	0	1	4
127	<p>Interference-Free, Multimodal Electronic Skin Matrix with Low-Power, Monolithic Integrated Circuits</p> <p>Cho, C; Choi, H; (...); Lee, H</p> <p>May 2022 ADVANCED MATERIALS TECHNOLOGIES ▼ 7 (5)</p>	0	1	2	0	1	0.8	4
128	<p>Energy-level alignment at interfaces between gold and poly(3-hexylthiophene) films with two different molecular structures</p> <p>Park, YD; Cho, JH; (...); Cho, K</p> <p>9th International Conference on Synchrotron Radiation Instrumentation (SRI 2006)</p> <p>2007 SYNCHROTRON RADIATION INSTRUMENTATION, PTS 1 AND 2 879 , pp.1623-+</p>	0	0	0	0	0	0.16	3
129	<p>Ferroelectric-Assisted Ion Dynamics for Prolonged Tactile Cognizance in a Biomimetic Memory-in-Sensor System</p> <p>Bhunia, R; Kim, JS; (...); Kim, DH</p> <p>Apr 2025 ADVANCED ELECTRONIC MATERIALS ▼ 11 (5)</p>	0	0	0	0	2	1	2

<div>☰★ Enriched Cited References</div>								
<div>Wireless Power Transfer Based Implantable Neurostimulator</div>								
⊖ 130	<div>Jang, SG; Kim, J; (...); Park, SM</div>	0	1	0	1	0	0.33	2
	<div>IEEE Wireless Power Transfer Conference (WPTC)</div>							
	<div>2020 2020 IEEE WIRELESS POWER TRANSFER CONFERENCE (WPTC) , pp.365-368</div>							
<div>☰★ Enriched Cited References</div>								



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130	<p>Wireless Power Transfer Based Implantable Neurostimulator</p> <p>Jang, SG; Kim, J; (...); Park, SM IEEE Wireless Power Transfer Conference (WPTC) 2020 2020 IEEE WIRELESS POWER TRANSFER CONFERENCE (WPTC) , pp.365-368</p> <p>Enriched Cited References</p>	0	1	0	1	0	0.33	2
131	<p>On the Publication of the Special Issue on Flexible Optoelectronic Materials and Devices</p> <p>Kang, MS and Kim, D Jun 2020 MACROMOLECULAR RESEARCH ▾ 28 (7) , pp.653-653</p>	0	0	1	0	0	0.17	1
132	<p>Effect of phase state of self-assembled monolayers on pentacene growth and thin film transistors characteristics</p> <p>Lee, HS; Kim, DH; (...); Cho, K 9th International Conference on Synchrotron Radiation Instrumentation (SRI 2006) 2007 SYNCHROTRON RADIATION INSTRUMENTATION, PTS 1 AND 2 879 , pp.1646-+</p>	0	0	0	0	0	0.05	1
133	<p>Precise control of tibial nerve stimulation for bladder regulation via evoked compound action potential feedback mechanisms</p> <p>Lim, YS; Kim, JH; (...); Park, SM May 2 2025 NATURE COMMUNICATIONS ▾ 16 (1)</p>	0	0	0	0	0	0	0
134	<p>Scalable Superior Chemical Sensing Performance of Stretchable Ionotronic Skin via a π-Hole Receptor Effect (vol 33, 2007605, 2021)</p> <p>Jin, ML; Park, S; (...); Kim, DH Jan 2022 ADVANCED MATERIALS ▾ 34 (4)</p>	0	0	0	0	0	0	0