

Christos D Dimitrakopoulos

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64
papers

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33
h-index

69
g-index

69
ext. papers

16,688
ext. citations

10.3
avg, IF

6.65
L-index

#	Paper	IF	Citations
64	Organic Thin Film Transistors for Large Area Electronics. <i>Advanced Materials</i> , 2002 , 14, 99-117	24	4390
63	100-GHz transistors from wafer-scale epitaxial graphene. <i>Science</i> , 2010 , 327, 662	33.3	2059
62	Organic-inorganic hybrid materials as semiconducting channels in thin-film field-effect transistors. <i>Science</i> , 1999 , 286, 945-7	33.3	1586
61	Organic thin-film transistors: A review of recent advances. <i>IBM Journal of Research and Development</i> , 2001 , 45, 11-27	2.5	907
60	Low-voltage organic transistors on plastic comprising high-dielectric constant gate insulators. <i>Science</i> , 1999 , 283, 822-4	33.3	771
59	Wafer-scale graphene integrated circuit. <i>Science</i> , 2011 , 332, 1294-7	33.3	730
58	Graphene: synthesis and applications. <i>Materials Today</i> , 2012 , 15, 86-97	21.8	663
57	Molecular beam deposited thin films of pentacene for organic field effect transistor applications. <i>Journal of Applied Physics</i> , 1996 , 80, 2501-2508	2.5	615
56	N-type organic thin-film transistor with high field-effect mobility based on a N,N'-dialkyl-3,4,9,10-perylene tetracarboxylic diimide derivative. <i>Applied Physics Letters</i> , 2002 , 80, 2517-2519	25.19	417
55	High-performance, solution-processed organic thin film transistors from a novel pentacene precursor. <i>Journal of the American Chemical Society</i> , 2002 , 124, 8812-3	16.4	409
54	State-of-the-art graphene high-frequency electronics. <i>Nano Letters</i> , 2012 , 12, 3062-7	11.5	318
53	Structurally Tailored Organic/Inorganic Perovskites: Optical Properties and Solution-Processed Channel Materials for Thin-Film Transistors. <i>Chemistry of Materials</i> , 2001 , 13, 3728-3740	9.6	278
52	High-performance bottom electrode organic thin-film transistors. <i>IEEE Transactions on Electron Devices</i> , 2001 , 48, 1060-1064	2.9	255
51	Principle of direct van der Waals epitaxy of single-crystalline films on epitaxial graphene. <i>Nature Communications</i> , 2014 , 5, 4836	17.4	247
50	Reducing contact resistance in graphene devices through contact area patterning. <i>ACS Nano</i> , 2013 , 7, 3661-7	16.7	163
49	Infrared spectroscopy of wafer-scale graphene. <i>ACS Nano</i> , 2011 , 5, 9854-60	16.7	159
48	Field-effect transistors comprising molecular beam deposited tri-hexyl-hexathienylene and polymeric insulator. <i>Synthetic Metals</i> , 1998 , 92, 47-52	3.6	158

47	Low-Voltage, High-Mobility Pentacene Transistors with Solution-Processed High Dielectric Constant Insulators. <i>Advanced Materials</i> , 1999 , 11, 1372-1375	24	146
46	Layer-resolved graphene transfer via engineered strain layers. <i>Science</i> , 2013 , 342, 833-6	33.3	142
45	Hybrid Field-Effect Transistor Based on a Low-Temperature Melt-Processed Channel Layer. <i>Advanced Materials</i> , 2002 , 14, 1772-1776	24	134
44	Three-terminal graphene negative differential resistance devices. <i>ACS Nano</i> , 2012 , 6, 2610-6	16.7	131
43	Photosensitive Pentacene Precursor: Synthesis, Photothermal Patterning, and Application in Thin-Film Transistors. <i>Advanced Materials</i> , 2003 , 15, 2066-2069	24	96
42	Semiconducting perovskites (2-XC ₆ H ₄ C ₂ H ₄ NH ₃) ₂ SnI ₄ (X = F, Cl, Br): steric interaction between the organic and inorganic layers. <i>Inorganic Chemistry</i> , 2003 , 42, 2031-9	5.1	91
41	Wafer-scale epitaxial graphene growth on the Si-face of hexagonal SiC (0001) for high frequency transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, 985-992	1.3	86
40	Patterning pentacene organic thin film transistors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 956		85
39	Enhanced Performance in Epitaxial Graphene FETs With Optimized Channel Morphology. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1343-1345	4.4	72
38	Epitaxial graphene nanoribbon array fabrication using BCP-assisted nanolithography. <i>ACS Nano</i> , 2012 , 6, 6786-92	16.7	62
37	Charge trapping and scattering in epitaxial graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	59
36	Thermal transport into graphene through nanoscopic contacts. <i>Physical Review Letters</i> , 2013 , 111, 205901	7.4	57
35	Multicarrier transport in epitaxial multilayer graphene. <i>Applied Physics Letters</i> , 2010 , 97, 112107	3.4	47
34	Property modifications of nanoporous pSiCOH dielectrics to enhance resistance to plasma-induced damage. <i>Journal of Applied Physics</i> , 2008 , 104, 094109	2.5	47
33	Graphene-based microfluidics for serial crystallography. <i>Lab on A Chip</i> , 2016 , 16, 3082-96	7.2	43
32	Effect of SiC wafer miscut angle on the morphology and Hall mobility of epitaxially grown graphene. <i>Applied Physics Letters</i> , 2011 , 98, 222105	3.4	33
31	Near Surface Structure of Solvent-free Processed Polyimide Thin Film. <i>Langmuir</i> , 1996 , 12, 2802-2806	4	30
30	trans-trans-2,5-Bis-[2-5-(2,2'-bithienyl)ethenyl]thiophene: synthesis, characterization, thin film deposition and fabrication of organic field-effect transistors. <i>Synthetic Metals</i> , 1997 , 89, 193-197	3.6	29

29	N-Doped Zwitterionic Fullerenes as Interlayers in Organic and Perovskite Photovoltaic Devices. <i>ACS Energy Letters</i> , 2017 , 2, 957-963	20.1	26
28	Fast Production of High-Quality Graphene via Sequential Liquid Exfoliation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27027-30	9.5	23
27	2011 ,		21
26	RF performance of short channel graphene field-effect transistor 2010 ,		21
25	Impact of gate resistance in graphene radio frequency transistors. <i>Applied Physics Letters</i> , 2012 , 101, 143503	3.4	19
24	A Kinetic Study of the Mechanism of the Solid-State Reaction between Pyromellitic Dianhydride (PMDA) and Oxydianiline (ODA). <i>Macromolecules</i> , 1996 , 29, 5818-5825	5.5	19
23	The Effect of Surface Preparation on the Structure and Electrical Transport in an Organic Semiconductor. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 665, 1		14
22	Multilayer epitaxial graphene formed by pyrolysis of polycrystalline silicon-carbide grown on c-plane sapphire substrates. <i>Applied Physics Letters</i> , 2011 , 98, 132108	3.4	13
21	A Graphene-Based Microfluidic Platform for Electrocrystallization and In Situ X-ray Diffraction. <i>Crystals</i> , 2018 , 8, 76	2.3	12
20	Current-driven nanowire formation on surfaces of crystalline conducting substrates. <i>Applied Physics Letters</i> , 2016 , 108, 193109	3.4	11
19	Graphene RF Transistor Performance. <i>ECS Transactions</i> , 2010 , 28, 3-13	1	10
18	Layer Number Determination and Thickness-Dependent Properties of Graphene Grown on SiC. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 1196-1201	2.6	10
17	Growth of Polyimide Films by Chemical Vapor Deposition and their Characterization. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 227, 55		10
16	Linearity of graphene field-effect transistors. <i>Applied Physics Letters</i> , 2013 , 103, 173115	3.4	9
15	Enhanced Quality CVD-Grown Graphene via a Double-Plateau Copper Surface Planarization Methodology. <i>Crystal Growth and Design</i> , 2017 , 17, 5725-5731	3.5	7
14	Graphene-based fast electronics and optoelectronics 2010 ,		7
13	Scanning force microscopy of polyimide surfaces. <i>Thin Solid Films</i> , 1997 , 295, 162-168	2.2	7
12	Fabrication of an electrical spin transport device utilizing a diazonium salt/hafnium oxide interface layer on epitaxial graphene grown on 6 H-SiC(0001). <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 04E109	1.3	5

11	Recent advances in organic field effect transistors. <i>Turkish Journal of Physics</i> , 2014 , 38, 497-508	1.6	4
10	Growth of ODPa-APB polyimide films using molecular beam deposition, and their characterization. <i>Polymer</i> , 1995 , 36, 4983-4990	3.9	4
9	Vertical thinking in blue light emitting diodes: GaN-on-graphene technology 2015 ,		3
8	A robust molecular probe for Ångstrom-scale analytics in liquids. <i>Nature Communications</i> , 2016 , 7, 12403	17.4	3
7	Development and optimization of porous pSiCOH interconnect dielectrics for 45 nm and beyond 2008 ,		3
6	Evaporation-Induced Self-Assembly of Semi-Crystalline PbI ₂ (DMSO) Complex Films as a Facile Route to Reproducible and Efficient Planar p-i-n Perovskite Solar Cells. <i>MRS Advances</i> , 2018 , 3, 1807-1817	19.7	2
5	Spray-Coated, Volatile and Nonvolatile, Two-Terminal, Resistive Switching Memory Devices Comprising Liquid-Exfoliated Black Phosphorus and Graphene Layers. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 5484-5489	2.9	2
4	Graphene-based fast electronics and optoelectronics 2010 ,		1
3	Vacuum-Deposited Organic Thin-Film Field-Effect Transistors Based on Small Molecules 2003 ,		1
2	Monolayer CVD Graphene Barrier Enhances the Stability of Planar p-i-n Organic-Inorganic Metal Halide Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2022 , 5, 52-60	6.1	0
1	Effects of Environment on Modulus of Low-k Porous Films Used in Back End of Line. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 990, 1		