Lay-Lay Chua

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Role of Linker Functionality in Polymers Exhibiting Mainâ€Chain Thermally Activated Delayed Fluorescence. Advanced Science, 2022, 9, e2200056.	5.6	13
2	Double-type-I charge-injection heterostructure for quantum-dot light-emitting diodes. Materials Horizons, 2022, 9, 2147-2159.	6.4	5
3	Improving organic photovoltaic cells by forcing electrode work function well beyond onset of Ohmic transition. Nature Communications, 2021, 12, 2250.	5.8	20
4	Overcoming the water oxidative limit for ultra-high-workfunction hole-doped polymers. Nature Communications, 2021, 12, 3345.	5.8	8
5	Surface Doping of Organic Singleâ€Crystal Semiconductors to Produce Strain ensitive Conductive Nanosheets. Advanced Science, 2021, 8, 2002065.	5.6	10
6	Bulk ion-clustering and surface ion-layering effects on work function of self-compensated charged-doped polymer semiconductors. Materials Horizons, 2020, 7, 1073-1082.	6.4	8
7	Spectator cation size effect on the work function and stability of self-compensated hole-doped polymers. Journal of Materials Chemistry C, 2020, 8, 124-131.	2.7	7
8	General bis(fluorophenyl azide) photo-crosslinkers for conjugated and non-conjugated polyelectrolytes. Journal of Materials Chemistry C, 2020, 8, 253-261.	2.7	6
9	Role of Singlet and Triplet Excitons on the Electrical Stability of Polymer Lightâ€Emitting Diodes. Advanced Electronic Materials, 2020, 6, 2000367.	2.6	5
10	Biasâ€Induced Electrochemical Electron Doping of Organic Semiconductor Contacts. Advanced Materials Interfaces, 2019, 6, 1900607.	1.9	4
11	Multivalent anions as universal latent electron donors. Nature, 2019, 573, 519-525.	13.7	50
12	Nearly 100% Photocrosslinking Efficiency in Ultrahigh Work Function Hole-Doped Conjugated Polymers Using Bis(fluorophenyl azide) Additives. ACS Applied Materials & Interfaces, 2019, 11, 48103-48112.	4.0	9
13	Solution-processed 2-dimensional hole-doped ionic graphene compounds. Materials Horizons, 2017, 4, 456-463.	6.4	3
14	Interface Doping for Ohmic Organic Semiconductor Contacts Using Selfâ€Aligned Polyelectrolyte Counterion Monolayer. Advanced Functional Materials, 2017, 27, 1606291.	7.8	26
15	Characterization of ohmic contacts in polymer organic field-effect transistors. Organic Electronics, 2016, 37, 491-497.	1.4	9
16	Doped polymer semiconductors with ultrahigh and ultralow work functions for ohmic contacts. Nature, 2016, 539, 536-540.	13.7	186
17	Madelung and Hubbard interactions in polaron band model of doped organic semiconductors. Nature Communications, 2016, 7, 11948.	5.8	66
18	A transition solvent strategy to print polymer:fullerene films using halogen-free solvents for solar cell applications. Organic Electronics, 2014, 15, 449-460.	1.4	23

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19	Influence of Graphite Source on Chemical Oxidative Reactivity. Chemistry of Materials, 2013, 25, 2944-2949.	3.2	18
20	Efficient surfactant-free and chemical reductant-free solvothermal deoxidation of solution-processable sub-stoichiometric graphene oxide. Journal of Materials Chemistry C, 2013, 1, 7246.	2.7	3
21	A general method for transferring graphene onto soft surfaces. Nature Nanotechnology, 2013, 8, 356-362.	15.6	255
22	Suppressing Recombination in Polymer Photovoltaic Devices via Energy‣evel Cascades. Advanced Materials, 2013, 25, 4131-4138.	11.1	57
23	Effective work functions for the evaporated metal/organic semiconductor contacts from in-situ diode flatband potential measurements. Applied Physics Letters, 2012, 101, 013501.	1.5	22
24	Polarization effects on energy-level alignment at the interfaces of polymer organic semiconductor films. Applied Physics Letters, 2012, 101, 053304.	1.5	18
25	Furan substituted diketopyrrolopyrrole and thienylenevinylene based low band gap copolymer for high mobility organic thin film transistors. Journal of Materials Chemistry, 2012, 22, 17284.	6.7	52
26	High internal quantum efficiency in fullerene solar cells based on crosslinked polymer donor networks. Nature Communications, 2012, 3, 1321.	5.8	83
27	Role of Borderline Solvents to Induce Pronounced Extended-Chain Lamellar Order in π-Stackable Polymers. Macromolecules, 2011, 44, 9692-9702.	2.2	45
28	Giant broadband nonlinear optical absorption response in dispersed graphene single sheets. Nature Photonics, 2011, 5, 554-560.	15.6	425
29	Hydrophilic Sparse Ionic Monolayerâ€Protected Metal Nanoparticles: Highly Concentrated Nanoâ€Au and Nanoâ€Ag "Inks―that can be Sintered to Nearâ€Bulk Conductivity at 150 °C. Advanced Functional Ma 2010, 20, 296-303.	at er.ia ls,	59
30	High-performance polymer semiconducting heterostructure devices by nitrene-mediated photocrosslinking of alkyl side chains. Nature Materials, 2010, 9, 152-158.	13.3	241
31	Determination of the interface δ-hole density in a blue-emitting organic semiconductor diode by electromodulated absorption spectroscopy. Applied Physics Letters, 2010, 97, .	1.5	17
32	Synthesis, characterization and comparative OFET behaviour of indenofluorene–bithiophene and terthiophene alternating copolymers. Synthetic Metals, 2010, 160, 468-474.	2.1	10
33	Interplay of Processing, Morphological Order, and Charge-Carrier Mobility in Polythiophene Thin Films Deposited by Different Methods: Comparison of Spin-Cast, Drop-Cast, and Inkjet-Printed Films. Langmuir, 2010, 26, 15494-15507.	1.6	34
34	Solution-processed conjugated polymer organic p-i-n light-emitting diodes with high built-in potential by solution- and solid-state doping. Applied Physics Letters, 2009, 95, .	1.5	14
35	Direct Evidence for the Role of the Madelung Potential in Determining the Work Function of Doped Organic Semiconductors. Physical Review Letters, 2009, 102, 096602.	2.9	31
36	Role ofl´-Hole-Doped Interfaces at Ohmic Contacts to Organic Semiconductors. Physical Review Letters, 2009, 103, 036601.	2.9	32

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37	Bandâ€like Transport in Surfaceâ€Functionalized Highly Solutionâ€Processable Graphene Nanosheets. Advanced Materials, 2008, 20, 3440-3446.	11.1	299
38	Deoxidation of graphene oxide nanosheets to extended graphenites by "unzipping―elimination. Journal of Chemical Physics, 2008, 129, 114702.	1.2	23
39	Robust reproducible large-area molecular rectifier junctions. Applied Physics Letters, 2008, 92, .	1.5	6
40	Solvent effects and multiple aggregate states in high-mobility organic field-effect transistors based on poly(bithiophene-alt-thienothiophene). Applied Physics Letters, 2008, 93, 162103.	1.5	21
41	Impact of self-assembled monolayer on low frequency noise of organic thin film transistors. Applied Physics Letters, 2008, 93, .	1.5	9
42	Low frequency noise analysis on organic thin film transistors. Journal of Applied Physics, 2008, 104, .	1.1	27
43	Polyfluorene-based light-emitting diodes with an azide photocross-linked poly(3,4-ethylene) Tj ETQq1 1 0.784314 103308.	rgBT /Ov 1.5	erlock 10 Tf. 44
44	Electromigration of the conducting polymer in organic semiconductor devices and its stabilization by cross-linking. Applied Physics Letters, 2007, 91, .	1.5	31
45	Controlled insulator-to-metal transformation in printable polymer composites with nanometal clusters. Nature Materials, 2007, 6, 149-155.	13.3	150
46	Large Damage Threshold and Small Electron Escape Depth in X-ray Absorption Spectroscopy of a Conjugated Polymer Thin Film. Langmuir, 2006, 22, 8587-8594.	1.6	53
47	General observation of n-type field-effect behaviour in organic semiconductors. Nature, 2005, 434, 194-199.	13.7	2,172
48	Organic double-gate field-effect transistors: Logic-AND operation. Applied Physics Letters, 2005, 87, 253512.	1.5	30
49	High-stability ultrathin spin-on benzocyclobutene gate dielectric for polymer field-effect transistors. Applied Physics Letters, 2004, 84, 3400-3402.	1.5	213