

Le Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7037632/publications.pdf>

Version: 2024-02-01

37
papers

727
citations

516710

16
h-index

526287

27
g-index

37
all docs

37
docs citations

37
times ranked

606
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the transition from secondary electron emission dominated to surface charge trap dominated electronic avalanche process along the solid dielectric surface in vacuum. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	12
2	Large bismuth oxide single crystal prepared by aerosol assisted chemical vapor deposition on amorphous substrates. <i>Materials Letters</i> , 2020, 268, 127588.	2.6	2
3	Carrier hopping transport in semi-crystalline isotactic polypropylene thin films: A revisit to the overestimated hopping distance. <i>Polymer</i> , 2019, 179, 121650.	3.8	6
4	Direct probing of the effective surface layer thickness during surface electrical breakdown along the solid dielectric and gas interface. <i>Applied Surface Science</i> , 2019, 498, 143812.	6.1	7
5	The effect of multiscale morphology on electrical conduction characteristics of isotactic polypropylene ultrathin films. <i>Materials Research Express</i> , 2019, 6, 046403.	1.6	3
6	Reverse manipulation of intrinsic point defects in ZnO-based varistor ceramics through Zr-stabilized high ionic conducting Bi_2O_3 intergranular phase. <i>Journal of the European Ceramic Society</i> , 2018, 38, 1614-1620.	5.7	22
7	Effect of Triplet Confinement on Triplet-Triplet Annihilation in Organic Phosphorescent Host-Guest Systems. <i>Advanced Functional Materials</i> , 2018, 28, 1804618.	14.9	60
8	Precise thickness control of solution-processed alpha-polypropylene thin film in sub-micron range and its morphological characterization. , 2018, , .		1
9	A Statistical Approach for Effectively Analyzing the Grain Size Distribution Along the Thickness Direction in Commercial ZnO-Based Varistor Ceramics. , 2018, , .		2
10	Zinc interstitial as a universal microscopic origin for the electrical degradation of ZnO-based varistors under the combined DC and temperature condition. <i>Journal of the European Ceramic Society</i> , 2017, 37, 3535-3540.	5.7	29
11	Effect of polaron diffusion on exciton-polaron quenching in disordered organic semiconductors. <i>Physical Review B</i> , 2017, 95, .	3.2	32
12	Clarifying the mechanism of triplet-triplet annihilation in phosphorescent organic host-guest systems: A combined experimental and simulation study. <i>Chemical Physics Letters</i> , 2016, 652, 142-147.	2.6	25
13	Analysis of the phosphorescent dye concentration dependence of triplet-triplet annihilation in organic host-guest systems. <i>Chemical Physics Letters</i> , 2016, 662, 221-227.	2.6	18
14	Analysis of alternating current driven electroluminescence in organic light emitting diodes: A comparative study. <i>Organic Electronics</i> , 2014, 15, 1815-1821.	2.6	15
15	Dependence of the Carrier Transport Characteristics on the Buried Layer Thickness in Ambipolar Double-Layer Organic Field-Effect Transistors Investigated by Electrical and Optical Measurements. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 05DC01.	1.5	4
16	Capacitance-voltage characteristics of a 4,4'-bis[<i>N</i> -carbazole]styryl]biphenyl based organic light-emitting diode: Implications for characteristic times and their distribution. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	34
17	Channel Formation as an Interface Charging Process in a Pentacene Field Effect Transistor Investigated by Time-Resolved Second Harmonic Generation and Impedance Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 02BK08.	1.5	5
18	Direct probing of selective electron and hole accumulation processes along the channel of an ambipolar double-layer field-effect transistor by optical modulation spectroscopy. <i>Applied Physics Letters</i> , 2012, 100, 103301.	3.3	8

#	ARTICLE	IF	CITATIONS
19	Channel Formation as an Interface Charging Process in a Pentacene Field Effect Transistor Investigated by Time-Resolved Second Harmonic Generation and Impedance Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 02BK08.	1.5	24
20	Direct Probing of Photovoltaic Effect Generated in Double-Layer Organic Solar Cell by Electric-Field-Induced Optical Second-Harmonic Generation. Applied Physics Express, 2011, 4, 021602.	2.4	42
21	Transport limited interfacial carrier relaxation in a double-layer device investigated by time-resolved second harmonic generation and impedance spectroscopy. Applied Physics Letters, 2011, 98, .	3.3	16
22	Bulk-trap modulated Maxwell-Wagner type interfacial carrier relaxation process in a fullerene/polyimide double-layer device investigated by time-resolved second harmonic generation. Journal of Applied Physics, 2011, 110, .	2.5	18
23	Analyzing photovoltaic effect of double-layer organic solar cells as a Maxwell-Wagner effect system by optical electric-field-induced second-harmonic generation measurement. Journal of Applied Physics, 2011, 110, .	2.5	24
24	Maxwell-Wagner type interfacial relaxation process in a doublelayer device investigated by time and frequency domain approaches. Physics Procedia, 2011, 14, 46-51.	1.2	1
25	Determination of Lifetime of Double-Layer CuPc/C60 Organic Solar Cells by Optical Electric-Field-Induced Second-Harmonic Generation Measurement. Physics Procedia, 2011, 14, 167-171.	1.2	0
26	Displacement Current Analysis of Capacitors with Ferroelectric Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (fluoride-tri	1.2	1
27	Direct Probing of Carrier Behavior in Electroluminescence Indiumâ€Zinc-Oxide/N,N'-Di-[(1-naphthyl)-N,N'-diphenyl]-(1,1'-biphenyl)-4,4'-diamine/Tris(8-hydroxy-quinolinato)aluminum(III)/LiF/Al Diode by Time-Resolved Optical Second-Harmonic Generation. Japanese Journal of Applied Physics, 2011, 50, 04DK08.	1.5	8
28	Investigation of the Voltage Establishment and Relaxation Processes in a Double-Layer Device by Time-Resolved Optical Second-Harmonic Generation. Japanese Journal of Applied Physics, 2011, 50, 04DK13.	1.5	7
29	Direct probing of the selective electron and hole accumulation at organic/organic interfaces in a triple-layer organic device by time-resolved optical second harmonic generation. Applied Physics Letters, 2011, 99, 083301.	3.3	14
30	Analyzing carrier lifetime of double-layer organic solar cells by using optical electric-field-induced second-harmonic generation measurement. Applied Physics Letters, 2011, 98, .	3.3	44
31	Investigation of the Voltage Establishment and Relaxation Processes in a Double-Layer Device by Time-Resolved Optical Second-Harmonic Generation. Japanese Journal of Applied Physics, 2011, 50, 04DK13.	1.5	3
32	Probing of Maxwell-Wagner Type Interfacial Charging Process in Double-Layer Devices by Time-Resolved Second Harmonic Generation. IEICE Transactions on Electronics, 2011, E94-C, 141-145.	0.6	0
33	Study of Carrier Behavior in Pentacene in a Au/Pentacene/Ferroelectric Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 18 Generation Measurement. Japanese Journal of Applied Physics, 2010, 49, 121601.	1.5	11
34	Probing of interfacial charging and discharging in double-layer devices with a polyimide blocking layer by time-resolved optical second harmonic generation. Journal of Applied Physics, 2010, 108, .	2.5	35
35	Analysis of Carrier Transients in Double-Layer Organic Light Emitting Diodes by Electric-Field-Induced Second-Harmonic Generation Measurement. Journal of Physical Chemistry C, 2010, 114, 15136-15140.	3.1	46
36	Analysis of Organic Light-Emitting Diode As a MaxwellâˆWagner Effect Element by Time-Resolved Optical Second Harmonic Generation Measurement. Journal of Physical Chemistry Letters, 2010, 1, 803-807.	4.6	55

#	ARTICLE	IF	CITATIONS
37	Characterization of intrinsic donor defects in ZnO ceramics by dielectric spectroscopy. Applied Physics Letters, 2008, 93, .	3.3	95