

Ruomeng Huang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7748473/publications.pdf>

Version: 2024-02-01

54
papers

980
citations

430442

18
h-index

500791

28
g-index

54
all docs

54
docs citations

54
times ranked

1222
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Selective Chemical Vapor Deposition of Tin Diselenide Thin Films onto Patterned Substrates via Single Source Diselenoether Precursors. <i>Chemistry of Materials</i> , 2012, 24, 4442-4449.	3.2	64
2	Poly(N-isopropylacrylamide) based thin microgel films for use in cell culture applications. <i>Scientific Reports</i> , 2020, 10, 6126.	1.6	59
3	Nonpolar resistive switching in Cu/SiC/Au non-volatile resistive memory devices. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	46
4	Chemical vapour deposition of antimony chalcogenides with positional and orientational control: precursor design and substrate selectivity. <i>Journal of Materials Chemistry C</i> , 2015, 3, 423-430.	2.7	46
5	Artificial neural network enabled accurate geometrical design and optimisation of thermoelectric generator. <i>Applied Energy</i> , 2022, 305, 117800.	5.1	46
6	Tin(^{iv}) chalcogenoether complexes as single source precursors for the chemical vapour deposition of SnE ₂ and SnE (E = S, Se) thin films. <i>Dalton Transactions</i> , 2018, 47, 2628-2637.	1.6	45
7	Non-aqueous electrodeposition of p-block metals and metalloids from halometallate salts. <i>RSC Advances</i> , 2013, 3, 15645.	1.7	43
8	Telluroether and Selenoether Complexes as Single Source Reagents for Low Pressure Chemical Vapor Deposition of Crystalline Ga ₂ Te ₃ and Ga ₂ Se ₃ Thin Films. <i>Chemistry of Materials</i> , 2013, 25, 1829-1836.	3.2	37
9	Accurate inverse design of Fabry-Pérot-cavity-based color filters far beyond sRGB via a bidirectional artificial neural network. <i>Photonics Research</i> , 2021, 9, B236.	3.4	35
10	Controlling the nanostructure of bismuth telluride by selective chemical vapour deposition from a single source precursor. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4865.	5.2	31
11	Compliance-Free ZrO ₂ /ZrO ₂ â€ˆâ€ˆx /ZrO ₂ Resistive Memory with Controllable Interfacial Multistate Switching Behaviour. <i>Nanoscale Research Letters</i> , 2017, 12, 384.	3.1	31
12	Area Selective Growth of Titanium Diselenide Thin Films into Micropatterned Substrates by Low-Pressure Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2013, 25, 4719-4724.	3.2	29
13	Non-aqueous electrodeposition of functional semiconducting metal chalcogenides: Ge ₂ Sb ₂ Te ₅ phase change memory. <i>Materials Horizons</i> , 2015, 2, 420-426.	6.4	28
14	Resistive switching of Cu/SiC/Au memory devices with a high ON/OFF ratio. <i>Solid-State Electronics</i> , 2014, 94, 98-102.	0.8	27
15	Forming-free resistive switching of tunable ZnO films grown by atomic layer deposition. <i>Microelectronic Engineering</i> , 2016, 161, 7-12.	1.1	26
16	Selection by current compliance of negative and positive bipolar resistive switching behaviour in ZrO ₂ â€ˆâ€ˆx/ZrO ₂ bilayer memory. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 175101.	1.3	21
17	Amorphous SiC based non-volatile resistive memories with ultrahigh ON/OFF ratios. <i>Microelectronic Engineering</i> , 2014, 119, 61-64.	1.1	20
18	Dynamic cable ratings for smarter grids. , 2013, , .		19

#	ARTICLE	IF	CITATIONS
19	Switching kinetics of SiC resistive memory for harsh environments. <i>AIP Advances</i> , 2015, 5, 077121.	0.6	19
20	Contact resistance measurement of Ge ₂ Sb ₂ Te ₅ phase change material to TiN electrode by spacer etched nanowire. <i>Semiconductor Science and Technology</i> , 2014, 29, 095003.	1.0	17
21	Thermoelectric Properties of Bismuth Telluride Thin Films Electrodeposited from a Nonaqueous Solution. <i>ACS Omega</i> , 2020, 5, 14679-14688.	1.6	16
22	Back-End-of-Line SiC-Based Memristor for Resistive Memory and Artificial Synapse. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	16
23	Nanoscale arrays of antimony telluride single crystals by selective chemical vapor deposition. <i>Scientific Reports</i> , 2016, 6, 27593.	1.6	15
24	Fermi Level Tuning of ZnO Films Through Supercycled Atomic Layer Deposition. <i>Nanoscale Research Letters</i> , 2017, 12, 541.	3.1	15
25	Compositionally tunable ternary Bi ₂ (Se _{1-x} Te _x) ₃ and (Bi _{1-y} Sb _y) ₂ Te ₃ thin films <i>via</i> low pressure chemical vapour deposition. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7734-7739.	2.7	15
26	Towards a 3D GeSbTe phase change memory with integrated selector by non-aqueous electrodeposition. <i>Faraday Discussions</i> , 2019, 213, 339-355.	1.6	14
27	Inverse design of structural color: finding multiple solutions <i>via</i> conditional generative adversarial networks. <i>Nanophotonics</i> , 2022, 11, 3057-3069.	2.9	14
28	Thioether complexes of WSCl ₄ , WOCl ₄ and WSCl ₃ and evaluation of thiochloride complexes as CVD precursors for WS ₂ thin films. <i>Dalton Transactions</i> , 2020, 49, 2496-2504.	1.6	13
29	Phase-Change Memory Properties of Electrodeposited Ge-Sb-Te Thin Film. <i>Nanoscale Research Letters</i> , 2015, 10, 432.	3.1	12
30	Conductive-bridge memory cells based on a nanoporous electrodeposited GeSbTe alloy. <i>Nanotechnology</i> , 2019, 30, 025202.	1.3	12
31	Phase-Change Memory by GeSbTe Electrodeposition in Crossbar Arrays. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3610-3618.	2.0	12
32	Total Dose Hardness of $\frac{\text{HfO}_x}{\text{TiN}}$ Resistive Random Access Memory. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 2991-2996.	1.2	11
33	Back-end-of-line a-SiO _x Cy:H dielectrics for resistive memory. <i>AIP Advances</i> , 2018, 8, .	0.6	10
34	Improved thermoelectric performance of Bi ₂ Se ₃ alloyed Bi ₂ Te ₃ thin films via low pressure chemical vapour deposition. <i>Journal of Alloys and Compounds</i> , 2020, 848, 156523.	2.8	10
35	Electrodeposition of a Functional Solid State Memory Material: Germanium Antimony Telluride from a Non-Aqueous Plating Bath. <i>Journal of the Electrochemical Society</i> , 2018, 165, D557-D567.	1.3	9
36	Selective Chemical Vapor Deposition Approach for Sb ₂ Te ₃ Thin Film Micro-thermoelectric Generators. <i>ACS Applied Energy Materials</i> , 2020, 3, 5840-5846.	2.5	9

#	ARTICLE	IF	CITATIONS
37	Electrodeposition of GeSbTe-Based Resistive Switching Memory in Crossbar Arrays. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26247-26255.	1.5	9
38	Mathematical model and optimization of a thin-film thermoelectric generator. <i>JPhys Energy</i> , 2020, 2, 014001.	2.3	8
39	[Ge(Te ⁿ Bu) ₄] ^{â€} a single source precursor for the chemical vapour deposition of germanium telluride thin films. <i>Dalton Transactions</i> , 2019, 48, 117-124.	1.6	7
40	Low temperature CVD of thermoelectric SnTe thin films from the single source precursor, [Te ⁿ Bu ₃ Sn(Te ⁿ Bu)]. <i>Dalton Transactions</i> , 2021, 50, 998-1006.	1.6	7
41	Low-Pressure CVD of GeE (E = Te, Se, S) Thin Films from Alkylgermanium Chalcogenolate Precursors and Effect of Deposition Temperature on the Thermoelectric Performance of GeTe. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47773-47783.	4.0	7
42	AC-assisted deposition of aggregate free silica films with vertical pore structure. <i>Nanoscale</i> , 2022, 14, 5404-5411.	2.8	7
43	Low Pressure Chemical Vapour Deposition of Crystalline Ga ₂ Te ₃ and Ga ₂ Se ₃ Thin Films from Single Source Precursors Using Telluroether and Selenoether Complexes. <i>Physics Procedia</i> , 2013, 46, 142-148.	1.2	6
44	Active counter electrode in a-SiC electrochemical metallization memory. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 325102.	1.3	6
45	Electrodeposition of Crystalline HgTe from a Non-Aqueous Plating Bath. <i>Journal of the Electrochemical Society</i> , 2018, 165, D802-D807.	1.3	5
46	Te ⁿ Bu ₂ Sn(S ⁿ Bu) ₂ and Te ⁿ Bu ₃ SnE ⁿ Bu (E = S or Se) ^{â€} effective single source precursors for the CVD of SnS and SnSe thermoelectric thin films. <i>Materials Advances</i> , 0, , .	2.6	5
47	Tungsten(^{vi}) selenide tetrachloride, WSeCl ₄ ^{â€} synthesis, properties, coordination complexes and application of [WSeCl ₄ (Se ⁱ Bu ₂)] for CVD growth of WSe ₂ thin films. <i>Dalton Transactions</i> , 2022, 51, 2400-2412.	1.6	5
48	The effect of atomic layer deposition temperature on switching properties of HfOx resistive RAM devices. , 2014, , .		4
49	Amorphous SiC resistive memory with embedded Cu nanoparticles. <i>Microelectronic Engineering</i> , 2017, 174, 1-5.	1.1	4
50	Use of day-ahead load forecasting for predicted cable rating. , 2014, , .		3
51	Effect of Stoichiometry of TiN Electrode on the Switching Behavior of TiN/HfOx/TiN Structures for Resistive RAM. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1631, 1.	0.1	3
52	Confining the growth of mesoporous silica films into nanospaces: towards surface nanopatterning. <i>Nanoscale Advances</i> , 0, , .	2.2	2
53	A novel top-down fabrication process for Ge ² Sb ² Te ⁵ phase change material nanowires. , 2013, , .		0
54	Cable tunnel thermal rating prediction using support vector regression. , 2014, , .		0