

Ken Cadien

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1529253/publications.pdf>

Version: 2024-02-01

61
papers

1,124
citations

361045

20
h-index

433756

31
g-index

62
all docs

62
docs citations

62
times ranked

1472
citing authors

#	ARTICLE	IF	CITATIONS
1	High ionic conductivity of ultralow yttria concentration yttria-stabilized zirconia thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 042405.	0.9	2
2	AlN PEALD with TMA and forming gas: study of plasma reaction mechanisms. <i>RSC Advances</i> , 2021, 11, 12235-12248.	1.7	2
3	Carbon nanosheets derived from reconstructed lignin for potassium and sodium storage with low voltage hysteresis. <i>Nano Research</i> , 2021, 14, 4664-4673.	5.8	24
4	From Amorphous to β -Gallium Oxide: Practical Implementation of Energetics Considerations in Process Design and Optimization. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 2104-2104.	0.0	0
5	Stoichiometry controlled homogeneous ternary oxide growth in showerhead atomic layer deposition reactor and application for $Zr_xHf_{1-x}O_2$. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, 030401.	0.9	1
6	$Hf_{1-x}Zr_xO_2$ and HfO_2/ZrO_2 gate dielectrics with extremely low density of interfacial defects using low temperature atomic layer deposition on GaN and InP. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	0.9	11
7	Atomic layer deposition of iron oxide on a porous carbon substrate via ethylferrocene and an oxygen plasma. <i>Surface and Coatings Technology</i> , 2021, 421, 127390.	2.2	6
8	X-ray Spectromicroscopy Investigation of Heterogeneous Sodiatioin in Hard Carbon Nanosheets with Vertically Oriented (002) Planes. <i>Small</i> , 2021, 17, e2102109.	5.2	8
9	TiO ₂ -HfN Radial Nano-Heterojunction: A Hot Carrier Photoanode for Sunlight-Driven Water-Splitting. <i>Catalysts</i> , 2021, 11, 1374.	1.6	8
10	Low Thermal Budget Heteroepitaxial Gallium Oxide Thin Films Enabled by Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44225-44237.	4.0	23
11	Resolving self-limiting growth in silicon nitride plasma enhanced atomic layer deposition with tris-dimethylamino silane precursor. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, 062406.	0.9	0
12	Separation of talc and molybdenite: challenges and opportunities. <i>Minerals Engineering</i> , 2019, 143, 105923.	1.8	34
13	Selective separation of copper-molybdenum sulfides using humic acids. <i>Minerals Engineering</i> , 2019, 133, 43-46.	1.8	33
14	Transient Potential Induced Anodic Dissolution of 316L Stainless Steel in Sulfuric Acid Solution. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3355-C3363.	1.3	8
15	Adsorption characteristics and mechanisms of O-Carboxymethyl chitosan on chalcopyrite and molybdenite. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 659-670.	5.0	65
16	Tetraallyltin precursor for plasma enhanced atomic layer deposition of tin oxide: Growth study and material characterization. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	0.9	5
17	Flotation separation of Cu-Mo sulfides by O-Carboxymethyl chitosan. <i>Minerals Engineering</i> , 2019, 134, 202-205.	1.8	35
18	Comparing XPS on bare and capped ZrN films grown by plasma enhanced ALD: Effect of ambient oxidation. <i>Applied Surface Science</i> , 2018, 435, 367-376.	3.1	57

#	ARTICLE	IF	CITATIONS
19	Selective flotation separation of molybdenite and talc by humic substances. Minerals Engineering, 2018, 117, 34-41.	1.8	46
20	Zr ₂ N ₂ O Coating-Improved Corrosion Resistance for the Anodic Dissolution Induced by Cathodic Transient Potential. ACS Applied Materials & Interfaces, 2018, 10, 40111-40124.	4.0	19
21	Observation of long-range dipole-dipole interactions in hyperbolic metamaterials. Science Advances, 2018, 4, eaar5278.	4.7	57
22	In Situ Synchrotron X-Ray Diffraction Analysis of Phase Transformation in Epitaxial Metastable hcp Nickel Thin Films, Prepared via Plasma-Enhanced Atomic Layer Deposition. Advanced Materials Interfaces, 2018, 5, 1800957.	1.9	4
23	Atomic Layer Deposition. , 2018, , 359-377.		13
24	Surface reaction kinetics in atomic layer deposition: An analytical model and experiments. Journal of Applied Physics, 2018, 124, .	1.1	20
25	ZnO Schottky Nanodiodes Processed From Plasma-Enhanced Atomic Layer Deposition at Near Room Temperature. IEEE Transactions on Electron Devices, 2018, 65, 4513-4519.	1.6	3
26	Achieving ultrahigh corrosion resistance and conductive zirconium oxynitride coating on metal bipolar plates by plasma enhanced atomic layer deposition. Journal of Power Sources, 2018, 397, 32-36.	4.0	37
27	Interaction Mechanisms between Air Bubble and Molybdenite Surface: Impact of Solution Salinity and Polymer Adsorption. Langmuir, 2017, 33, 2353-2361.	1.6	67
28	Freestanding hierarchical porous carbon film derived from hybrid nanocellulose for high-power supercapacitors. Nano Research, 2017, 10, 1847-1860.	5.8	55
29	Understanding the Effects of a High Surface Area Nanostructured Indium Tin Oxide Electrode on Organic Solar Cell Performance. ACS Applied Materials & Interfaces, 2017, 9, 38706-38715.	4.0	14
30	Conformal Carbon Nanotube Coatings for Ceramic Composite Structures. MRS Advances, 2017, 2, 1499-1503.	0.5	2
31	Growth and Characterization of Metastable Hexagonal Nickel Thin Films via Plasma-Enhanced Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 24722-24730.	4.0	15
32	Evaluation of efficiency factors and internal resistance of thermoelectric materials. International Journal of Energy Research, 2017, 41, 198-206.	2.2	9
33	Defect Characterization of PEALD High-k ZrO ₂ Films Fabricated on III-V Materials. IEEE Transactions on Semiconductor Manufacturing, 2016, 29, 355-362.	1.4	5
34	pulsed atomic layer deposition: Numerical growth model and experiments. Journal of Applied Physics, 2016, 119, .	1.1	23
35	Optimization of Copper Schottky Contacts on Nanocrystalline ZnO thin films by Atomic Layer Deposition. MRS Advances, 2016, 1, 3421-3427.	0.5	0
36	Plasma enhanced atomic layer deposition of ZnO with diethyl zinc and oxygen plasma: Effect of precursor decomposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	15

#	ARTICLE	IF	CITATIONS
37	Interfacial Contact Effects in Top Gated Zinc Oxide Thin Film Transistors Grown by Atomic Layer Deposition. IEEE Transactions on Electron Devices, 2016, 63, 3540-3546.	1.6	11
38	Ceria coated silica particles: One step preparation and settling behaviour under the influence of colloidal and hydrodynamic interactions. Materials Chemistry and Physics, 2016, 173, 467-474.	2.0	4
39	Ultra low density of interfacial traps with mixed thermal and plasma enhanced ALD of high- ϵ° gate dielectrics. RSC Advances, 2016, 6, 16301-16307.	1.7	38
40	Sustained hole inversion layer in a wide-bandgap metal-oxide semiconductor with enhanced tunnel current. Nature Communications, 2016, 7, 10632.	5.8	16
41	Influence of atomic layer deposition valve temperature on ZrN plasma enhanced atomic layer deposition growth. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	9
42	Probing initial-stages of ALD growth with dynamic in situ spectroscopic ellipsometry. Applied Surface Science, 2015, 328, 344-348.	3.1	21
43	A route to low temperature growth of single crystal GaN on sapphire. Journal of Materials Chemistry C, 2015, 3, 7428-7436.	2.7	38
44	Low temperature plasma enhanced atomic layer deposition of conducting zirconium nitride films using tetrakis (dimethylamido) zirconium and forming gas (5% H ₂ + 95% N ₂) plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	18
45	Chemical mechanical polishing of boron-doped polycrystalline silicon. Proceedings of SPIE, 2014, , .	0.8	1
46	Solar wafer emitter measurement by infrared reflectometry for process control: Implementation and results. , 2014, , .		5
47	High-mobility solution-processed zinc oxide thin films on silicon nitride. Physica Status Solidi - Rapid Research Letters, 2014, 8, 871-875.	1.2	7
48	Electrical Characteristics of TiW/ZnO Schottky contact with ALD and PLD. Materials Research Society Symposia Proceedings, 2014, 1635, 127-132.	0.1	5
49	Chemically enhanced synergistic wear: A copper chemical mechanical polishing case study. Wear, 2013, 307, 155-163.	1.5	22
50	On-Chip Power Generation: Microfluidic-Based Reactor for Catalytic Combustion of Methanol. , 2013, , .		0
51	Schottky barrier source-gated ZnO thin film transistors by low temperature atomic layer deposition. Applied Physics Letters, 2013, 103, .	1.5	14
52	Growth mechanism of atomic layer deposition of zinc oxide: A density functional theory approach. Applied Physics Letters, 2013, 103, .	1.5	40
53	Electrical Comparison of HfO_2 and ZrO_2 Gate Dielectrics on GaN. IEEE Transactions on Electron Devices, 2013, 60, 4119-4124.	1.6	21
54	CMP Method and Practice. , 2012, , 179-219.		2

#	ARTICLE	IF	CITATIONS
55	Capacitance Modeling and Characterization of Planar MOSCAP Devices for Wideband-Gap Semiconductors With High- κ Dielectrics. IEEE Transactions on Electron Devices, 2012, 59, 2662-2666.	1.6	11
56	The effect of argon pressure, residual oxygen and exposure to air on the electrical and microstructural properties of sputtered chromium thin films. Thin Solid Films, 2012, 520, 1762-1767.	0.8	15
57	Growth, structure and properties of sputtered niobium oxide thin films. Thin Solid Films, 2011, 519, 3068-3073.	0.8	35
58	In Situ Spectroscopic Ellipsometry Study of Plasma-Enhanced ALD of Al ₂ O ₃ on Chromium Substrates. Journal of the Electrochemical Society, 2011, 159, D59-D64.	1.3	12
59	Challenges for on-chip optical interconnects. , 2005, 5730, 133.		13
60	Advances in Characterization of CMP Consumables. MRS Bulletin, 2002, 27, 766-771.	1.7	38
61	Chemical Mechanical Polishing. , 2001, , 501-512.		2