Yo-Sep Min

List of Publications by Year
in descending order

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		236912	223791
76	2,219	25	46
papers	citations	h-index	g-index

76	76	76	3425
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High Turnover Frequency of Hydrogen Evolution Reaction on Amorphous MoS₂ Thin Film Directly Grown by Atomic Layer Deposition. Langmuir, 2015, 31, 1196-1202.	3.5	183
2	Novel chemical route for atomic layer deposition of MoS₂ thin film on SiO₂/Si substrate. Nanoscale, 2014, 6, 14453-14458.	5.6	174
3	Low Temperature (<100Â°C) Deposition of Aluminum Oxide Thin Films by ALD with O[sub 3] as Oxidant. Journal of the Electrochemical Society, 2006, 153, F69.	2.9	144
4	Program/Erase Characteristics of Amorphous Gallium Indium Zinc Oxide Nonvolatile Memory. IEEE Transactions on Electron Devices, 2008, 55, 2071-2077.	3.0	117
5	Atomic Layer Deposition of SrTiO₃ Thin Films with Highly Enhanced Growth Rate for Ultrahigh Density Capacitors. Chemistry of Materials, 2011, 23, 2227-2236.	6.7	112
6	Ruthenium Oxide Nanotube Arrays Fabricated by Atomic Layer Deposition Using a Carbon Nanotube Template. Advanced Materials, 2003, 15, 1019-1022.	21.0	106
7	Low-Temperature Growth of Single-Walled Carbon Nanotubes by Water Plasma Chemical Vapor Deposition. Journal of the American Chemical Society, 2005, 127, 12498-12499.	13.7	81
8	Low-Temperature Growth of Single-Walled Carbon Nanotubes by Plasma Enhanced Chemical Vapor Deposition. Chemistry of Materials, 2005, 17, 5141-5145.	6.7	73
9	Importance of Hydrophilic Pretreatment in the Hydrothermal Growth of Amorphous Molybdenum Sulfide for Hydrogen Evolution Catalysis. Langmuir, 2015, 31, 5220-5227.	3.5	72
10	Growth Characteristics of Atomic Layer Deposited TiO[sub 2] Thin Films on Ru and Si Electrodes for Memory Capacitor Applications. Journal of the Electrochemical Society, 2005, 152, C552.	2.9	64
11	Growth and Characterization of Conducting ZnO Thin Films by Atomic Layer Deposition. Bulletin of the Korean Chemical Society, 2010, 31, 2503-2508.	1.9	64
12	Co-catalytic Effects of CoS₂ on the Activity of the MoS₂ Catalyst for Electrochemical Hydrogen Evolution. Langmuir, 2017, 33, 5628-5635.	3.5	59
13	Enhanced Stability of Coated Carbon Electrode for Liâ€O₂ Batteries and Its Limitations. Advanced Energy Materials, 2018, 8, 1702661.	19.5	57
14	Atomic Layer Deposition of Al2O3Thin Films from a 1-Methoxy-2-methyl-2-propoxide Complex of Aluminum and Water. Chemistry of Materials, 2005, 17, 626-631.	6.7	51
15	A comprehensive study on atomic layer deposition of molybdenum sulfide for electrochemical hydrogen evolution. Nanoscale, 2016, 8, 7180-7188.	5.6	48
16	ZnO nanoparticle growth on single-walled carbon nanotubes by atomic layer deposition and a consequent lifetime elongation of nanotube field emission. Applied Physics Letters, 2007, 90, 263104.	3.3	46
17	Atomic layer deposition of hafnium oxide from tert-butoxytris(ethylmethylamido)hafnium and ozone: rapid growth, high density and thermal stability. Journal of Materials Chemistry, 2008, 18, 4324.	6.7	43
18	Majority Carrier Type Conversion with Floating Gates in Carbon Nanotube Transistors. Advanced Materials, 2009, 21, 4821-4824.	21.0	38

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19	Highly uniform and vertically aligned SnO₂nanochannel arrays for photovoltaic applications. Nanoscale, 2015, 7, 8368-8377.	5.6	36
20	Unusual transport characteristics of nitrogen-doped single-walled carbon nanotubes. Applied Physics Letters, 2008, 93, .	3.3	35
21	A kinetic study of ZnO atomic layer deposition: Effects of surface hydroxyl concentration and steric hindrance. Applied Surface Science, 2019, 469, 804-810.	6.1	34
22	A study on the development of CVD precursors V â€“ syntheses and characterization of new N-alkoxy-Î²-ketoiminate complexes of titanium. Journal of Organometallic Chemistry, 2004, 689, 224-237.	1.8	30
23	Direct growth of single-walled carbon nanotubes on conducting ZnO films and its field emission properties. Applied Physics Letters, 2006, 89, 113116.	3.3	29
24	Characteristics of Amorphous Bi[sub 2]Ti[sub 2]O[sub 7] Thin Films Grown by Atomic Layer Deposition for Memory Capacitor Applications. Journal of the Electrochemical Society, 2006, 153, F20.	2.9	29
25	Direct printing of aligned carbon nanotube patterns for high-performance thin film devices. Applied Physics Letters, 2009, 94, 053109.	3.3	26
26	Thin film transistors using preferentially grown semiconducting single-walled carbon nanotube networks by water-assisted plasma-enhanced chemical vapor deposition. Nanotechnology, 2009, 20, 295201.	2.6	25
27	Shrinking Core Model for Knudsen Diffusion-Limited Atomic Layer Deposition on a Nanoporous Monolith with an Ultrahigh Aspect Ratio. Journal of Physical Chemistry C, 2010, 114, 18601-18606.	3.1	24
28	Growth and characterization of nitrogen-doped single-walled carbon nanotubes by water-plasma chemical vapour deposition. Nanotechnology, 2007, 18, 285601.	2.6	23
29	From mono- to poly-nuclear heteroleptic alkaline earth-titanium complexes containing 2,2,6,6-tetramethylheptane-3,5-dionate (thd) and pyrazole (Hpz) or 3,5-dimethylpyrazole (Hpz*) ligands.. Inorganica Chimica Acta, 2003, 355, 157-167.	2.4	21
30	Charge trapping behavior in organicâ€“inorganic alloy films grown by molecular layer deposition from trimethylaluminum, p-phenylenediamine and water. Journal of Materials Chemistry, 2012, 22, 23935.	6.7	21
31	Role of HCl in Atomic Layer Deposition of TiO₂Thin Films from Titanium Tetrachloride and Water. Bulletin of the Korean Chemical Society, 2014, 35, 1195-1201.	1.9	21
32	Botryoidal growth of crystalline ZnO nanoparticles on a forest of single-walled carbon nanotubes by atomic layer deposition. CrystEngComm, 2011, 13, 3451.	2.6	19
33	Liquid Source-MOCVD of BaxSr1xTiO3 (BST) Thin Films with a N-alkoxy-Î²-ketoiminato Titanium Complex. Chemical Vapor Deposition, 2001, 7, 146-149.	1.3	17
34	Effect of oxygen incorporation in amorphous molybdenum sulfide on electrochemical hydrogen evolution. Applied Surface Science, 2019, 487, 981-989.	6.1	17
35	A new and efficient route for 1,3,3â€²-triketones. Tetrahedron Letters, 2001, 42, 7645-7649.	1.4	16
36	Direct photolithographic route to selective growth of single-walled carbon nanotubes using a modified photoresist with ferrocene. Nanotechnology, 2006, 17, 116-123.	2.6	16

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37	Transparent 3 nm-thick MoS2 counter electrodes for bifacial dye-sensitized solar cells. Journal of Industrial and Engineering Chemistry, 2019, 80, 106-111.	5.8	15
38	Thin film transistors of single-walled carbon nanotubes grown directly on glass substrates. Nanotechnology, 2007, 18, 495203.	2.6	14
39	Noise characteristics of single-walled carbon nanotube network transistors. Nanotechnology, 2008, 19, 285705.	2.6	14
40	Band structure of amorphous zinc tin oxide thin films deposited by atomic layer deposition. Journal of Industrial and Engineering Chemistry, 2018, 58, 328-333.	5.8	14
41	Atomic Layer Deposition (ALD) of Bismuth Titanium Oxide Thin Films Using Direct Liquid Injection (DLI) Method. Integrated Ferroelectrics, 2003, 59, 1483-1489.	0.7	12
42	Sulfidative Purification of Carbon Nanotubes Integrated in Transistors. Journal of the American Chemical Society, 2005, 127, 8300-8301.	13.7	12
43	Atomic layer deposited HfO2 and HfO2/TiO2 bi-layer films using a heteroleptic Hf-precursor for logic and memory applications. Journal of Materials Chemistry, 2011, 21, 18497.	6.7	12
44	Decomposition behaviors of bis(N-alkoxy-p-ketoiminate) titanium complexes in the depositions of titanium oxide and barium strontium titanate films. Thin Solid Films, 2002, 409, 82-87.	1.8	11
45	Single-walled carbon nanotube growth on glass. Nanotechnology, 2007, 18, 015601.	2.6	11
46	Unusual Growth Behavior of Atomic Layer Deposited PbTiO₃ Thin Films Using Water and Ozone As Oxygen Sources and Their Combination. Journal of Physical Chemistry C, 2010, 114, 12736-12741.	3.1	11
47	Amorphous High k Dielectric Bi[sub 1â^'xâ^'y]Ti[sub x]Si[sub y]O[sub z] Thin Films by ALD. Electrochemical and Solid-State Letters, 2004, 7, F85.	2.2	8
48	Bi1-x-yTixSiyOz (BTSO) Thin Films for Dynamic Random Access Memory Capacitor Applications. Chemical Vapor Deposition, 2005, 11, 38-43.	1.3	8
49	Fabrication of suspended single-walled carbon nanotubesvia a direct lithographic route. Journal of Materials Chemistry, 2006, 16, 174-178.	6.7	8
50	Low Temperature Growth of Single-walled Carbon Nanotube Forest. Bulletin of the Korean Chemical Society, 2010, 31, 2819-2822.	1.9	8
51	Local modification of the thin YBa2Cu3O7â^'y microstrips by the voltage-biased atomic force microscope tip. Applied Physics Letters, 2000, 76, 484-486.	3.3	7
52	Large-scale assembly of â€˜type-switchableâ€™ field effect transistors based on carbon nanotubes and nanoparticles. Nanotechnology, 2010, 21, 345301.	2.6	7
53	Doping of Carbon Nanotubes Using Low Energy Ion Implantation. Journal of Nanoscience and Nanotechnology, 2010, 10, 3934-3939.	0.9	7
54	Nanostructures of Indium Gallium Nitride Crystals Grown on Carbon Nanotubes. Scientific Reports, 2015, 5, 16612.	3.3	6

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55	A Novel Chemical Route to Atomic Layer Deposition of <scp>ZnS</scp> Thin Film from Diethylzinc and 1,5â€Pentanedithiol. Bulletin of the Korean Chemical Society, 2017, 38, 696-699.	1.9	6
56	Unveiled Understanding on Thermodynamic Mechanisms of Atomic Layer Deposition Based on Trimethylaluminum and Water Precursors. Industrial & Engineering Chemistry Research, 2020, 59, 13325-13332.	3.7	6
57	Chemical Probing of Water-Stable Methyl Species in Atomic Layer Deposition of Al₂O₃ from Trimethylaluminum and Water. Journal of Physical Chemistry C, 2021, 125, 21434-21442.	3.1	6
58	Modified Shrinking Core Model for Atomic Layer Deposition of TiO₂on Porous Alumina with Ultrahigh Aspect Ratio. Bulletin of the Korean Chemical Society, 2013, 34, 519-523.	1.9	6
59	Atomic Layer Deposition of Bi[sub 1â^'xâ^'y]Ti[sub x]Si[sub y]O[sub z] Thin Films from Alkoxide Precursors and Water. Journal of the Electrochemical Society, 2005, 152, F124.	2.9	5
60	Fabrication and characterization of suspended single-walled carbon nanotubes. Solid State Communications, 2006, 139, 186-190.	1.9	5
61	Structure and Unusual Substitution Reaction of Oligoether-AppendedÎ²-Diketonato Strotium Complex. Chemical Vapor Deposition, 2003, 9, 241-244.	1.3	4
62	Nonvolatile Memory Devices Fabricated by Using Colloidal Ni Nanocrystals. Journal of the Korean Physical Society, 2007, 50, 49-52.	0.7	4
63	Black Si Photocathode with a Conformal and Amorphous MoS_x Catalytic Layer Grown Using Atomic Layer Deposition for Photoelectrochemical Hydrogen Evolution. ACS Applied Materials & Interfaces, 2022, 14, 14137-14145.	8.0	4
64	Effect of Alumina Addition on Bi-Ti-Al-O Dielectric Thin Films. Electrochemical and Solid-State Letters, 2006, 9, G231.	2.2	3
65	Atomic Layer Deposition of Bi[sub 1â^'xâ^'y]Ti[sub x]Si[sub y]O[sub z] Thin Films Using H[sub 2]O Oxidant and Their Characteristics Depending on Si Content. Journal of the Electrochemical Society, 2007, 154, H915.	2.9	3
66	Investigation of abnormally high growth-per-cycle in atomic layer deposition of Al2O3 using trimethylaluminum and water. Applied Surface Science, 2022, 571, 151282.	6.1	3
67	1,5-Pentanediol as an Oxygen Precursor for Atomic Layer Deposition of Zinc Oxide Thin Films. Chemistry of Materials, 2017, 29, 3371-3374.	6.7	2
68	Preparation of MoS2 spheres from Mo plate and elemental sulfur and the effect of sphericalization on electrochemical hydrogen evolution catalysis. Materials Chemistry and Physics, 2022, 278, 125639.	4.0	2
69	In-SituElectrical Study of a Reversible Surface Modification and a Nanomachining of Gold Microstrips by the Voltage-Biased Atomic Force Microscope Tip in Air. Japanese Journal of Applied Physics, 2001, 40, 4340-4343.	1.5	1
70	Alkaline-Earth Metal Complexes with Pivaloylacetone. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2002, 28, 603-607.	1.0	1
71	Nonvolatile Memory: Majority Carrier Type Conversion with Floating Gates in Carbon Nanotube Transistors (Adv. Mater. 47/2009). Advanced Materials, 2009, 21, .	21.0	1
72	Mechanistic Mapping of Ozone-Dosed Al₂O₃ Atomic Layer Deposition Half-Cycles. Industrial & Engineering Chemistry Research, 2022, 61, 9695-9702.	3.7	1

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73	Reversible Patterning of Ambient Carbon-Rich Deposits on a Gold Surface by Means of a Voltage-Biased Atomic Force Microscopy. Molecular Crystals and Liquid Crystals, 2001, 371, 467-472.	0.3	0
74	Controlling the characteristics of single walled carbon nanotube network transistors by using metal electrodes with different work functions. , 2006, , .		0
75	Random network transistors of carbon nanotubes directly grown on glass substrate. , 2006, , .		0
76	Observation of localized strains on vertically grown single-walled carbon nanotube forests via polarized Raman spectroscopy. Nanotechnology, 2014, 25, 025705.	2.6	0