

Bo Keun Park

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Preparation and Optical Properties of Colloidal, Monodisperse, and Highly Crystalline ITO Nanoparticles. <i>Chemistry of Materials</i> , 2008, 20, 2609-2611.	6.7	105
2	Growth of p-Type Tin(II) Monoxide Thin Films by Atomic Layer Deposition from Bis(1-dimethylamino-2-methyl-2-propoxy)tin and H ₂ O. <i>Chemistry of Materials</i> , 2014, 26, 6088-6091.	6.7	76
3	Low-Temperature Growth of Indium Oxide Thin Film by Plasma-Enhanced Atomic Layer Deposition Using Liquid Dimethyl(<i>N</i> -ethoxy-2,2-dimethylpropanamido)indium for High-Mobility Thin Film Transistor Application. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26924-26931.	8.0	59
4	Remarkably Efficient Photocurrent Generation Based on a [60]Fullerene-“Triosmium Cluster/Zn-“Porphyrin/Boron-“Dipyrrin Triad SAM. <i>Chemistry - A European Journal</i> , 2010, 16, 5586-5599.	3.3	54
5	Two Metal Centers Bridging Two C ₆₀ Cages as a Wide Passage for Efficient Interfullerene Electronic Interaction. <i>Journal of the American Chemical Society</i> , 2003, 125, 13920-13921.	13.7	53
6	Phase-controlled SnO ₂ and SnO growth by atomic layer deposition using Bis(N-ethoxy-2,2-dimethyl) Tj ETQqO O 0 rgBT /Overlock 10 TF 5	4.8	42
7	Atomic Layer Deposition of Ruthenium and Ruthenium Oxide Thin Films from a Zero-Valent (1,5-Hexadiene)(1-isopropyl-4-methylbenzene)ruthenium Complex and O ₂ . <i>Chemistry of Materials</i> , 2014, 26, 7083-7090.	6.7	37
8	Four-Bits-Per-Cell Operation in an HfO ₂ -Based Resistive Switching Device. <i>Small</i> , 2017, 13, 1701781.	10.0	37
9	Synthetic, Electrochemical, and Theoretical Studies of Tetrairidium Clusters Bearing Mono- and Bis[60]fullerene Ligands. <i>Journal of the American Chemical Society</i> , 2006, 128, 11160-11172.	13.7	34
10	Highly-conformal nanocrystalline molybdenum nitride thin films by atomic layer deposition as a diffusion barrier against Cu. <i>Journal of Alloys and Compounds</i> , 2016, 663, 651-658.	5.5	33
11	Improved Initial Growth Behavior of SrO and SrTiO ₃ Films Grown by Atomic Layer Deposition Using {Sr(demamp)(tmhd)} ₂ as Sr-Precursor. <i>Chemistry of Materials</i> , 2015, 27, 3881-3891.	6.7	32
12	Thermal atomic layer deposition of In ₂ O ₃ thin films using dimethyl(N-ethoxy-2,2-dimethylcarboxylicpropanamide)indium and H ₂ O. <i>Applied Surface Science</i> , 2017, 419, 758-763.	6.1	30
13	Physical/chemical properties of tin oxide thin film transistors prepared using plasma-enhanced atomic layer deposition. <i>Materials Research Bulletin</i> , 2012, 47, 3052-3055.	5.2	29
14	Heteroleptic Group 2 Metal Precursors for Metal Oxide Thin Films. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2002-2010.	2.0	29
15	[Os ₃ (CO) ₆ (PMe ₃) ₃](^{1/3} 4- ¹ - ² - ¹ - ² -C ₆₀)[Re ₃ (^{1/4} -H) ₃ (CO) ₉]: A Fullerene[60] Coordinated to Two Different Trinuclear Clusters. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1436-1439.	13.8	24
16	New heteroleptic magnesium complexes for MgO thin film application. <i>Dalton Transactions</i> , 2015, 44, 2103-2109.	3.3	19
17	Atomic layer deposition of indium oxide thin film from a liquid indium complex containing 1-dimethylamino-2-methyl-2-propoxy ligands. <i>Applied Surface Science</i> , 2016, 383, 1-8.	6.1	19
18	Germanium Compounds Containing Ge-E Double Bonds (E = S, Se, Te) as Single-Source Precursors for Germanium Chalcogenide Materials. <i>Inorganic Chemistry</i> , 2017, 56, 4084-4092.	4.0	19

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19	Method for Synthesis of Tetrabenzoporphyrin Precursor for Use in Organic Electronic Devices. <i>Journal of Organic Chemistry</i> , 2012, 77, 8329-8331.	3.2	18
20	N-Alkoxy Carboxamide Stabilized Tin(II) and Germanium(II) Complexes for Thin-Film Applications. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5539-5546.	2.0	18
21	Novel [60] Fullerene-Assisted ortho-Phosphanation on a Tetrairidium Butterfly Framework. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1712-1714.	13.8	17
22	Ortho Phosphorylation of PPh ₃ To Give a Diphosphine and Formation of a "Butterfly" Structure on a Tetrairidium Framework. <i>Organometallics</i> , 2005, 24, 675-679.	2.3	17
23	Synthesis and Characterization of Nickel(II) Aminoalkoxides: Application to Molecular Precursors for MOCVD of Ni Thin Films. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1833-1839.	2.0	17
24	Highly Conformal Amorphous W-Si-N Thin Films by Plasma-Enhanced Atomic Layer Deposition as a Diffusion Barrier for Cu Metallization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1548-1556.	3.1	17
25	Growth of tantalum nitride film as a Cu diffusion barrier by plasma-enhanced atomic layer deposition from bis((2-(dimethylamino)ethyl)(methyl)amido)methyl(tert-butylimido)tantalum complex. <i>Applied Surface Science</i> , 2016, 362, 176-181.	6.1	16
26	Effect of Oxygen Source on the Various Properties of SnO ₂ Thin Films Deposited by Plasma-Enhanced Atomic Layer Deposition. <i>Coatings</i> , 2020, 10, 692.	2.6	16
27	Atomic-layer-deposited SnO film using novel Sn(dmamb) ₂ precursor for p-channel thin film transistor. <i>Applied Surface Science</i> , 2021, 547, 148758.	6.1	15
28	Atomic layer deposition of pure In ₂ O ₃ films for a temperature range of 200-300 °C using heteroleptic liquid In(DMAMP) ₂ (OiPr) precursor. <i>Ceramics International</i> , 2020, 46, 3139-3143.	4.8	14
29	Syntheses, Structures, and Electrochemical Properties of Os ₃ (CO) ₉ -n(CNCH ₂ Ph) _n ($\frac{1}{3}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -C ₆₀) (n = 2-4). <i>Organometallics</i> , 2006, 25, 4634-4642.	2.3	13
30	Band gap engineering of atomic layer deposited Zn _x Sn _{1-x} O buffer for efficient Cu(In,Ga)Se ₂ solar cell. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 745-751.	8.1	13
31	Optimized Method for Low-Energy and Highly Reliable Multibit Operation in a HfO ₂ -Based Resistive Switching Device. <i>Advanced Electronic Materials</i> , 2018, 4, 1800261.	5.1	12
32	The synthesis and characterization of Re ₃ ($\frac{1}{4}$ -H) ₃ (CO) ₉ -n(PMe ₃) _n ($\frac{1}{3}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -C ₆₀) (n=2,3) complexes. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 4704-4711.	1.8	11
33	Hydrothermal synthesis of CuInSe ₂ nanoparticles in acetic acid. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 867-871.	4.0	11
34	Growth of Cu ₂ S thin films by atomic layer deposition using Cu(dmamb) ₂ and H ₂ S. <i>Applied Surface Science</i> , 2018, 456, 501-506.	6.1	11
35	Atomic layer deposition of a ruthenium thin film using a precursor with enhanced reactivity. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3820-3825.	5.5	11
36	Tin(II) Aminothiolate and Tin(IV) Aminothiolate Selenide Compounds as Single-Source Precursors for Tin Chalcogenide Materials. <i>Inorganic Chemistry</i> , 2020, 59, 3513-3517.	4.0	10

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37	Synthesis and Characterization of Novel Volatile Imido-Aminoalkoxide Tantalum Compounds. <i>Organometallics</i> , 2012, 31, 8109-8113.	2.3	9
38	Synthesis of new heteroleptic strontium complexes stabilized by η^2 -ketoiminato ligands. <i>Inorganica Chimica Acta</i> , 2015, 436, 118-122.	2.4	9
39	Synthesis of noble molybdenum and tungsten complexes for hydrocracking catalyst of heavy oil. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 408-413.	5.8	9
40	Simultaneous etching of underlying metal oxide and sulfide thin films during Cu ₂ S atomic layer deposition. <i>Applied Surface Science</i> , 2020, 524, 146452.	6.1	9
41	Heteroleptic magnesium complexes containing amidinate and aminoalkoxy ligands. <i>Polyhedron</i> , 2015, 101, 185-190.	2.2	8
42	[60]Fullerene π -Metal Cluster Complexes: Understanding Novel η^1 and $\eta^2[6:5]$ Bonding Modes of Metallofullerenes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1530-1535.	2.0	7
43	Indium complexes bearing donor-functionalized alkoxide ligands as precursors for indium oxide thin films. <i>Journal of Organometallic Chemistry</i> , 2017, 833, 43-49.	1.8	7
44	New Heteroleptic Cobalt Precursors for Deposition of Cobalt-Based Thin Films. <i>ACS Omega</i> , 2017, 2, 5486-5493.	3.5	7
45	Strategy of solution process precursors for phase change memory. <i>Polyhedron</i> , 2020, 176, 114289.	2.2	6
46	Synthesis and characterization of novel zinc precursors for ZnO thin film deposition by atomic layer deposition. <i>Dalton Transactions</i> , 2020, 49, 4306-4314.	3.3	6
47	Atomic Layer Deposition of Cu ₂ Sn ₃ Thin Films: Effects of Composition and Heat Treatment on Phase Transformation. <i>Chemistry of Materials</i> , 2021, 33, 8112-8123.	6.7	6
48	Novel Heteroleptic Tin(II) Complexes Capable of Forming SnO and SnO ₂ Thin Films Depending on Conditions Using Chemical Solution Deposition. <i>ACS Omega</i> , 2022, 7, 1232-1243.	3.5	6
49	Synthesis of new heteroleptic strontium complexes. <i>Dalton Transactions</i> , 2014, 43, 14461-14469.	3.3	5
50	Synthesis of Indium Complexes for Thin Film Transistor Applications Bearing N-Alkoxy Carboxamide Ligands. <i>ChemistrySelect</i> , 2018, 3, 6691-6695.	1.5	5
51	A facile synthetic route to tungsten diselenide using a new precursor containing a long alkyl chain cation for multifunctional electronic and optoelectronic applications. <i>RSC Advances</i> , 2019, 9, 6169-6176.	3.6	5
52	Indium complexes with aminothiolate ligands as single precursors for indium chalcogenides. <i>Inorganica Chimica Acta</i> , 2020, 505, 119504.	2.4	5
53	Synthesis of Heteroleptic Strontium Complexes Containing Substituted Cyclopentadienyl and η^2 -Diketonate Ligands. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 967-970.	1.9	5
54	Cyclic voltammetry modeling, geometries, and electronic properties for metallofullerene complexes with $\eta^3\text{-}\eta^2\text{-}\eta^2\text{-}\eta^2\text{-C}_6\text{O}$ bonding mode. <i>Journal of Computational Chemistry</i> , 2007, 28, 1100-1106.	3.3	4

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55	Synthesis of Monoimido Tungsten Complexes Directly from WCl_6 . ChemistrySelect, 2016, 1, 44-48.	1.5	4
56	Highly efficient photocatalytic methylene blue degradation over Sn(O,S)/TiO ₂ photocatalyst fabricated via powder atomic layer deposition of SnO and subsequent sulfurization. Materials Letters, 2020, 272, 127868.	2.6	4
57	Synthesis of novel volatile niobium precursors containing carboxamide for Nb ₂ O ₅ thin films. Polyhedron, 2021, 200, 115134.	2.2	4
58	Group IV Transition Metal (M = Zr, Hf) Precursors for High- κ Metal Oxide Thin Films. Inorganic Chemistry, 2021, 60, 17722-17732.	4.0	4
59	Cluster and Polynuclear Compounds. Inorganic Syntheses, 2004, , 184-232.	0.3	3
60	Synthesis and structure of novel strontium complexes of unsymmetrically functionalized β^2 -diketimine ligands. Inorganica Chimica Acta, 2012, 383, 67-71.	2.4	3
61	Synthesis, characterization, and electrochemical study of $Os_3(CO)_7(1,2-dppm)(\frac{1}{4}3-\beta^2-C60)$ and $Os_3(CO)_7(1,1-dppm)(\frac{1}{4}3-\beta^2-C60)$. Journal of Organometallic Chemistry, 2014, 763-764, 20-25.	1.8	3
62	Synthesis and characterization of Mo and W compounds containing aminothiolate ligand for disulfide materials. Polyhedron, 2015, 100, 199-205.	2.2	3
63	Heteroleptic strontium complexes stabilized by donor-functionalized alkoxide and β^2 -diketonate ligands. Dalton Transactions, 2015, 44, 14042-14053.	3.3	3
64	Synthesis of novel tin complexes using functionalized oxime ligands. Inorganica Chimica Acta, 2016, 446, 1-5.	2.4	3
65	Ruthenocene Precursors for Ruthenium-Containing Thin-Film Deposition: An Example of Solvent Nucleophilic Attack on Fulvene. Organometallics, 2017, 36, 2755-2760.	2.3	3
66	Synthesis of Ruthenium Pentamethyl[60]fullerene Complexes Bearing Monodentate Diphenylphosphino-methane, -ferrocene, and -butane Ligands. Bulletin of the Korean Chemical Society, 2010, 31, 697-699.	1.9	3
67	Synthesis and Structural Characterization of Strontium Complex of Symmetrically Functionalized β^2 -Diketimine Ligand. Bulletin of the Korean Chemical Society, 2012, 33, 2059-2062.	1.9	3
68	Synthesis and Structure of Novel Tin Complexes Containing Aminoalkoxide Ligands. ChemistrySelect, 2018, 3, 7836-7839.	1.5	2
69	Synthesis and characterization of tungsten Imido/Aminoalkoxide complexes to deposit tungsten oxide thin films. Inorganica Chimica Acta, 2020, 502, 119307.	2.4	2
70	Synthesis and Crystal Structures of New Strontium Complexes with Aminoalkoxy and β^2 -Diketonato Ligands. ACS Omega, 2021, 6, 15948-15956.	3.5	2
71	Synthesis of New Heteroleptic Indium Complexes as Potential Precursors for Indium Oxide Thin Films. European Journal of Inorganic Chemistry, 2021, 2021, 2480-2485.	2.0	2
72	Synthesis of Novel Unsymmetric Strontium Complexes Containing Aminoalkoxides. ChemistrySelect, 2021, 6, 7823-7828.	1.5	2

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73	Trimesitylborane-embedded radical scavenging separator for lithium-ion batteries. <i>Current Applied Physics</i> , 2021, 31, 1-6.	2.4	2
74	Strategic allocation of two-dimensional van der Waals semiconductor as an oxygen reservoir for boosting resistive switching reliability. <i>Applied Surface Science</i> , 2022, 577, 151936.	6.1	2
75	Synthesis and Characterization of Fullerene-Metal Compound with Long Alkyl Chain for Liquid Crystals, Supramolecules, and Optoelectronic Materials. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 600, 35-38.	0.9	1
76	Hexa-coordinated Strontium Silylamide Complex Stabilized by Tetradentate Alkoxy Ligand. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 2587-2588.	1.9	1
77	Heteroleptic manganese compounds as potential precursors for manganese based thin films and nanomaterials. <i>RSC Advances</i> , 2020, 10, 29659-29667.	3.6	1
78	Synthesis and Structure of Tin and Germanium Complexes as Precursors Containing Alkoxyaminoalkoxide Ligands for Thin Film Transistors. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2074-2079.	2.0	1
79	Synthesis of Heteroleptic Zinc Complexes Containing Aminoalkoxide and β -diketonate Ligands. <i>ChemistrySelect</i> , 2021, 6, 5880-5884.	1.5	1
80	Polycrystalline and high purity SnO ₂ films by plasma-enhanced atomic layer deposition using H ₂ O plasma at very low temperatures of 60–90 °C. <i>Vacuum</i> , 2021, , 110739.	3.5	1
81	Synthesis and Characterization of New Strontium Complexes with Multidentate Ligands. <i>ChemistrySelect</i> , 2022, 7, .	1.5	1
82	Charge-Trapping Characteristics of Al ₂ O ₃ /Cu/Al ₂ O ₃ Nanolaminate Structures Prepared Through Atomic Layer Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5887-5891.	0.9	0
83	Trinuclear magnesium complexes stabilized by aminoalkoxide ligands. <i>Journal of Coordination Chemistry</i> , 2016, 69, 2591-2597.	2.2	0
84	Synthesis and characterization of triosmium-bis[60]fullerene and bis(metal cluster)[60]fullerene compounds. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 636, 155-158.	0.9	0
85	New Volatile Tantalum Imido Precursors with Carboxamide Ligands. <i>ACS Omega</i> , 2021, 6, 24795-24802.	3.5	0