Hyung-Ho Park

List of Publications by Year
in descending order

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523	9,071	61857	95083
papers	citations	43 h-index	68 g-index

528	528	528	9855
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silica Aerogel: Synthesis and Applications. Journal of Nanomaterials, 2010, 2010, 1-11.	1.5	536
2	Preparation and Characterization of Zinc Oxide Nanoparticles Using Leaf Extract of Sambucus ebulus. Applied Sciences (Switzerland), 2020, 10, 3620.	1.3	206
3	Crystal structure, properties and nanostructuring of a new layered chalcogenide semiconductor, Bi2MnTe4. CrystEngComm, 2013, 15, 5532.	1.3	153
4	Compositional and structural analysis of aluminum oxide films prepared by plasma-enhanced chemical vapor deposition. Thin Solid Films, 1994, 237, 57-65.	0.8	126
5	Ambient pressure dried TEOS-based silica aerogels: good absorbents of organic liquids. Journal of Materials Science, 2010, 45, 503-510.	1.7	114
6	Chemiresistive Electronic Nose toward Detection of Biomarkers in Exhaled Breath. ACS Applied Materials & Interfaces, 2016, 8, 20969-20976.	4.0	113
7	Characteristics of the ZnO thin film transistor by atomic layer deposition at various temperatures. Semiconductor Science and Technology, 2009, 24, 035015.	1.0	110
8	Self-activated ultrahigh chemosensitivity of oxide thin film nanostructures for transparent sensors. Scientific Reports, 2012, 2, 588.	1.6	110
9	Extremely Sensitive and Selective NO Probe Based on Villi-like WO₃ Nanostructures for Application to Exhaled Breath Analyzers. ACS Applied Materials & Interfaces, 2013, 5, 10591-10596.	4.0	96
10	Impact of nanostructured thin ZnO film in ultraviolet protection. International Journal of Nanomedicine, 2017, Volume 12, 207-216.	3.3	95
11	SiO2 aerogel film as a novel intermetal dielectric. Journal of Applied Physics, 1997, 82, 1299-1304.	1.1	92
12	Ambient-dried low dielectric SiO2 aerogel thin film. Journal of Non-Crystalline Solids, 1997, 221, 151-156.	1.5	92
13	Microsheets like nickel cobalt phosphate thin films as cathode for hybrid asymmetric solid-state supercapacitor: Influence of nickel and cobalt ratio variation. Chemical Engineering Journal, 2022, 429, 132184.	6.6	87
14	Flexible and Transparent Silica Aerogels: An Overview. Journal of the Korean Ceramic Society, 2017, 54, 184-199.	1.1	83
15	Preparation and characterization of porous silica xerogel film for low dielectric application. Thin Solid Films, 1997, 308-309, 495-500.	0.8	82
16	A simple approach to the fabrication of fluorine-doped zinc oxide thin films by atomic layer deposition at low temperatures and an investigation into the growth mode. Journal of Materials Chemistry C, 2014, 2, 98-108.	2.7	80
17	Effect of metal (Al, Ga, and In)-dopants and/or Ag-nanoparticles on the optical and electrical properties of ZnO thin films. Thin Solid Films, 2006, 515, 957-960.	0.8	76
18	Characteristics of the electromagnetic interference shielding effectiveness of Al-doped ZnO thin films deposited by atomic layer deposition. Applied Surface Science, 2013, 269, 92-97.	3.1	75

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19	Structural and Electrical Properties of ZnO Thin Films Deposited by Atomic Layer Deposition at Low Temperatures. Journal of the Electrochemical Society, 2008, 155, H738.	1.3	74
20	The effect of sol viscosity on the solâ€“gel derived low density SiO 2 xerogel film for intermetal dielectric application. Thin Solid Films, 1998, 332, 449-454.	0.8	72
21	Density of state effective mass and related charge transport properties in K-doped BiCuOSe. Applied Physics Letters, 2013, 103, .	1.5	69
22	A new route to the Mott-Hubbard metal-insulator transition: Strong correlations effects in Pr0.7Ca0.3MnO3. Scientific Reports, 2013, 3, .	1.6	69
23	Improvement of breakdown characteristics of a GaAs power fieldâ€effect transistor using (NH4)2Sxtreatment. Journal of Applied Physics, 1993, 73, 3539-3542.	1.1	65
24	Highly sensitive CO sensors based on cross-linked TiO2 hollow hemispheres. Sensors and Actuators B: Chemical, 2010, 149, 116-121.	4.0	64
25	Improved Performance of Organic Light-Emitting Diodes Fabricated on Al-Doped ZnO Anodes Incorporating a Homogeneous Al-Doped ZnO Buffer Layer Grown by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2013, 5, 3650-3655.	4.0	64
26	Structurally Nanocrystalline-Electrically Single Crystalline ZnO-Reduced Graphene Oxide Composites. Nano Letters, 2014, 14, 5104-5109.	4.5	64
27	Organically modified silica aerogel with different functional silylating agents and effect on their physico-chemical properties. Journal of Non-Crystalline Solids, 2016, 453, 164-171.	1.5	64
28	Optically transparent silica aerogels based on sodium silicate by a two step solâ€“gel process and ambient pressure drying. Solid State Sciences, 2013, 18, 50-57.	1.5	63
29	Effect of sputtering power on the physical properties of dc magnetron sputtered copper oxide thin films. Materials Chemistry and Physics, 2008, 110, 397-401.	2.0	59
30	Monolithic and shrinkage-free hydrophobic silica aerogels via new rapid supercritical extraction process. Journal of Supercritical Fluids, 2016, 107, 84-91.	1.6	58
31	Porous organic filler for high efficiency of flexible thermoelectric generator. Nano Energy, 2021, 81, 105604.	8.2	58
32	Concentration-dependent mesostructure of surfactant-templated mesoporous silica thin film. Thin Solid Films, 2006, 494, 320-324.	0.8	56
33	Mott-transition-based RRAM. Materials Today, 2019, 28, 63-80.	8.3	56
34	Enhanced photocatalytic activity of a mesoporous TiO2 aerogel decorated onto three-dimensional carbon foam. Journal of Molecular Liquids, 2019, 277, 424-433.	2.3	56
35	Hydrophobic TiO2â€“SiO2 composite aerogels synthesized via in situ epoxy-ring opening polymerization and sol-gel process for enhanced degradation activity. Ceramics International, 2020, 46, 4939-4946.	2.3	55
36	Effect of grain size of Pb(Zr0.4Ti0.6)O3 solâ€“gel derived thin films on the ferroelectric properties. Applied Surface Science, 2001, 169-170, 544-548.	3.1	52

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37	Chemical and electrical characterization of Gd2O3âˆ•GaAs interface improved by sulfur passivation. Journal of Applied Physics, 2004, 96, 4811-4816.	1.1	52
38	All villi-like metal oxide nanostructures-based chemiresistive electronic nose for an exhaled breath analyzer. Sensors and Actuators B: Chemical, 2018, 257, 295-302.	4.0	51
39	Facile Synthesis of SnO2 Aerogel/Reduced Graphene Oxide Nanocomposites via in Situ Annealing for the Photocatalytic Degradation of Methyl Orange. Nanomaterials, 2019, 9, 358.	1.9	49
40	Fabrication of a High-Performance Hybrid Supercapacitor Based on Hydrothermally Synthesized Highly Stable Cobalt Manganese Phosphate Thin Films. Langmuir, 2021, 37, 5260-5274.	1.6	48
41	Highly Dispersed Pt Clusters on F-Doped Tin(IV) Oxide Aerogel Matrix: An Ultra-Robust Hybrid Catalyst for Enhanced Hydrogen Evolution. ACS Nano, 2022, 16, 1625-1638.	7.3	48
42	Anion-controlled passivation effect of the atomic layer deposited ZnO films by F substitution to O-related defects on the electronic band structure for transparent contact layer of solar cell applications. Solar Energy Materials and Solar Cells, 2015, 132, 403-409.	3.0	47
43	Humidityâ€Tolerant Singleâ€Stranded DNAâ€Functionalized Graphene Probe for Medical Applications of Exhaled Breath Analysis. Advanced Functional Materials, 2017, 27, 1700068.	7.8	47
44	Flexible, elastic, and superhydrophobic silica-polymer composite aerogels by high internal phase emulsion process. Composites Science and Technology, 2017, 147, 45-51.	3.8	45
45	Flexible and lightweight Fe3O4/polymer foam composites for microwave-absorption applications. Journal of Alloys and Compounds, 2019, 805, 120-129.	2.8	44
46	Facile synthesis of hydrophobic, thermally stable, and insulative organically modified silica aerogels using co-precursor method. Ceramics International, 2018, 44, 3966-3972.	2.3	43
47	Embossed TiO₂ Thin Films with Tailored Links between Hollow Hemispheres: Synthesis and Gas-Sensing Properties. Journal of Physical Chemistry C, 2011, 115, 9993-9999.	1.5	42
48	Flexible piezoelectric micromachined ultrasonic transducer (pMUT) for application in brain stimulation. Microsystem Technologies, 2017, 23, 2321-2328.	1.2	42
49	The effect of excess Pb content on the crystallization and electrical properties in solâ€“gel derived Pb (Zr0.4Ti0.6)O3 thin films. Thin Solid Films, 2000, 377-378, 739-744.	0.8	40
50	Photo-induced hybrid nanopatterning of titanium dioxide via direct imprint lithography. Journal of Materials Chemistry, 2010, 20, 1921.	6.7	40
51	Ambient pressure dried tetrapropoxysilane-based silica aerogels with high specific surface area. Solid State Sciences, 2018, 75, 63-70.	1.5	40
52	Evaluation of SiO2 aerogel thin film with ultra low dielectric constant as an intermetal dielectric. Microelectronic Engineering, 1997, 33, 343-348.	1.1	39
53	Improvement in the high temperature thermal insulation performance of Y2O3 opacified silica aerogels. Journal of Alloys and Compounds, 2017, 727, 871-878.	2.8	37
54	Hollow Pt-Functionalized SnO₂ Hemipill Network Formation Using a Bacterial Skeleton for the Noninvasive Diagnosis of Diabetes. ACS Sensors, 2018, 3, 661-669.	4.0	37

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55	Molecular dynamics and experimental studies of nanoindentation on nanoporous silica aerogels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 344-352.	2.6	37
56	Application of SiO2 aerogel film with low dielectric constant to intermetal dielectrics. Thin Solid Films, 1997, 308-309, 490-494.	0.8	36
57	Facile nanopatterning of zirconium dioxide films via direct ultraviolet-assisted nanoimprint lithography. Journal of Materials Chemistry, 2011, 21, 657-662.	6.7	35
58	The effects of post-annealing on the performance of ZnO thin film transistors. Thin Solid Films, 2011, 519, 8109-8113.	0.8	35
59	SnO 2 thin films grown by atomic layer deposition using a novel Sn precursor. Applied Surface Science, 2014, 320, 188-194.	3.1	35
60	Characterization and removal of silicon surface residue resulting from CHF3/C2F6reactive ion etching. Journal of Applied Physics, 1994, 76, 4596-4602.	1.1	34
61	Label-free protein assay with site-directly immobilized antibody using self-actuating PZT cantilever. Sensors and Actuators B: Chemical, 2006, 117, 332-338.	4.0	34
62	Composites of silica aerogels with organics: a review of synthesis and mechanical properties. Springer Series in Emerging Cultural Perspectives in Work, Organizational, and Personnel Studies, 2020, 57, 1-23.	1.5	33
63	Atomic force microscopic observation of SrTiO3 polar surface. Solid State Ionics, 1998, 108, 73-79.	1.3	32
64	A Power-Generation Test for Oxide-Based Thermoelectric Modules Using p-Type Ca3Co4O9 and n-Type Ca0.9Nd0.1MnO3 Legs. Journal of Electronic Materials, 2012, 41, 1247-1255.	1.0	32
65	Microwave dielectric properties of barium substituted screen printed CaBi2Nb2O9 ceramic thick films. Ceramics International, 2018, 44, 7515-7523.	2.3	32
66	Structural and mechanical properties of hybrid silica aerogel formed using triethoxy(1-phenylethenyl)silane. Microporous and Mesoporous Materials, 2020, 298, 110092.	2.2	32
67	Leakage current and dielectric breakdown behavior in annealed SiO2 aerogel films. Applied Physics Letters, 1998, 72, 1391-1393.	1.5	31
68	A route to high sensitivity and rapid response Nb2O5-based gas sensors: TiO2 doping, surface embossing, and voltage optimization. Sensors and Actuators B: Chemical, 2011, 153, 37-43.	4.0	31
69	Direct patterning of SnO2 composite films prepared with various contents of Pt nanoparticles by photochemical metal-organic deposition. Thin Solid Films, 2011, 519, 6214-6218.	0.8	31
70	The properties of silica aerogels hybridized with SiO2 nanoparticles by ambient pressure drying. Ceramics International, 2012, 38, S105-S108.	2.3	31
71	Mechanical modeling and simulation of aerogels: A review. Ceramics International, 2021, 47, 2981-2998.	2.3	31
72	Effective atomic layer deposition procedure for Al-dopant distribution in ZnO thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 1111-1114.	0.9	30

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73	A study of the activation behaviour of Zrî—¸Crî—¸Nîî—¸La metal hydride electrodes in alkaline solution. Journal of Alloys and Compounds, 1994, 205, 225-229.	2.8	29
74	Surface preparation and effective contact formation for GaAs surface. Vacuum, 2002, 67, 91-100.	1.6	29
75	n-ZnO/p-Si UV photodetectors employing AlOx films for antireflection. Thin Solid Films, 2004, 447-448, 111-114.	0.8	29
76	Aluminum-doped zinc oxide formed by atomic layer deposition for use as anodes in organic light emitting diodes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	0.9	29
77	Manganite-based memristive heterojunction with tunable non-linear Iâ€“V characteristics. Nanoscale, 2015, 7, 6444-6450.	2.8	29
78	SnO2 aerogel deposited onto polymer-derived carbon foam for environmental remediation. Journal of Molecular Liquids, 2019, 287, 110990.	2.3	29
79	Characteristics of Zinc-Oxide-Sulfide-Mixed Films Deposited by Using Atomic Layer Deposition. Journal of the Korean Physical Society, 2008, 53, 3287-3295.	0.3	29
80	Ferroelectric-gate field effect transistors using Nd2Ti2O7/Y2O3/Si structures. Thin Solid Films, 2001, 398-399, 663-667.	0.8	28
81	Chemical bonding states and energy band gap of SiO2-incorporated La2O3 films on n-GaAs (001). Thin Solid Films, 2006, 494, 311-314.	0.8	28
82	Al₂O₃buffer in a ZnO thin film transistor with poly-4-vinylphenol dielectric. Semiconductor Science and Technology, 2009, 24, 025008.	1.0	28
83	Glancing angle deposited WO 3 nanostructures for enhanced sensitivity and selectivity to NO 2 in gas mixture. Sensors and Actuators B: Chemical, 2016, 229, 92-99.	4.0	28
84	Facile synthesis of a lightweight three-dimensional polymer scaffold dip-coated with multiple layers of TiO2 aerogel for X-band microwave absorption applications. Journal of Alloys and Compounds, 2020, 823, 153847.	2.8	28
85	Direct-patterning of SnO2 thin film by photochemical metal-organic deposition. Sensors and Actuators A: Physical, 2006, 132, 429-433.	2.0	27
86	Effect of substrate temperature on the physical properties of dc magnetron sputtered CuAlO2 films. Journal of Alloys and Compounds, 2009, 474, 401-405.	2.8	27
87	Role of oxalic acid in structural formation of sodium silicate-based silica aerogel by ambient pressure drying. Journal of Sol-Gel Science and Technology, 2018, 85, 302-310.	1.1	26
88	Superhydrophobic and Compressible Silica-polyHIPE Covalently Bonded Porous Networks via Emulsion Templating for Oil Spill Cleanup and Recovery. Scientific Reports, 2018, 8, 16783.	1.6	26
89	Amorphous, hydrous nickel phosphate thin film electrode prepared by SILAR method as a highly stable cathode for hybrid asymmetric supercapacitor. Synthetic Metals, 2021, 280, 116876.	2.1	26
90	Intercalation-type pseudocapacitive clustered nanoparticles of nickelâ€“cobalt phosphate thin films synthesized via electrodeposition as cathode for high-performance hybrid supercapacitor devices. Journal of Materials Chemistry A, 2022, 10, 11225-11237.	5.2	26

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91	Synthesis of MWCNTs doped sodium silicate based aerogels by ambient pressure drying. Journal of Sol-Gel Science and Technology, 2012, 62, 201-207.	1.1	25
92	Position-controlled hydrothermal growth of ZnO nanorods on arbitrary substrates with a patterned seed layer via ultraviolet-assisted nanoimprint lithography. CrystEngComm, 2013, 15, 3463.	1.3	25
93	Effect of La3+ substitution with Gd3+ on the resistive switching properties of La0.7Sr0.3MnO3 thin films. Applied Physics Letters, 2014, 104, .	1.5	25
94	Effect of spark plasma sintering conditions on the thermoelectric properties of (Bi0.25Sb0.75)2Te3 alloys. Journal of Alloys and Compounds, 2016, 678, 396-402.	2.8	25
95	Enhancement of sp[sup 3] hybridized C in amorphous carbon films by Ar ion bombardment and Si incorporation. Journal of Applied Physics, 2003, 94, 4828.	1.1	24
96	Application of mesoporous TiO2 as a thermal isolation layer for infrared sensors. Thin Solid Films, 2007, 516, 212-215.	0.8	24
97	Variations in mechanical and thermal properties of mesoporous alumina thin films due to porosity and ordered pore structure. Journal of Colloid and Interface Science, 2010, 345, 120-124.	5.0	24
98	Atomic layer deposition of HfO2 thin films using H2O2 as oxidant. Applied Surface Science, 2014, 301, 451-455.	3.1	24
99	Control of electrical conductivity of highly stacked zinc oxide nanocrystals by ultraviolet treatment. Scientific Reports, 2019, 9, 6244.	1.6	24
100	Effect of prepared GaAs surface on the sulfidation with (NH4)2Sx solution. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 88-92.	0.9	23
101	Electrical properties of PZT thin films by photochemical deposition. Thin Solid Films, 2004, 447-448, 669-673.	0.8	23
102	Stacking effect on the ferroelectric properties of PZT/PLZT multilayer thin films formed by photochemical metal-organic deposition. Applied Surface Science, 2004, 237, 427-432.	3.1	23
103	Improvement in optical and physical properties of TEOS based aerogels using acetonitrile via ambient pressure drying. Ceramics International, 2012, 38, 6883-6888.	2.3	23
104	Solâ€“gel synthesis of high surface area nanostructured zirconia powder by surface chemical modification. Powder Technology, 2013, 239, 314-318.	2.1	23
105	Impurity-free, mechanical doping for the reproducible fabrication of the reliable n-type Bi2Te3-based thermoelectric alloys. Acta Materialia, 2018, 150, 153-160.	3.8	23
106	Silylation of sodium silicate-based silica aerogel using trimethylethoxysilane as alternative surface modification agent. Journal of Sol-Gel Science and Technology, 2018, 87, 319-330.	1.1	23
107	Effect of zinc substitution on magnesium ferrite nanoparticles: Structural, electrical, magnetic, and gas-sensing properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 262, 114776.	1.7	23
108	The characterization of etched GaAs surface with HCl or H3PO4 solutions. Thin Solid Films, 1997, 308-309, 634-642.	0.8	22

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109	Structural and electrical properties of co-sputtered fluorinated amorphous carbon film. Thin Solid Films, 2002, 420-421, 248-252.	0.8	22
110	Non-laminated growth of chlorine-doped zinc oxide films by atomic layer deposition at low temperatures. Journal of Materials Chemistry C, 2015, 3, 8336-8343.	2.7	22
111	Effect of water ethanol solvents mixture on textural and gas sensing properties of tin oxide prepared using epoxide-assisted solâ€“gel process and dried at ambient pressure. Solid State Sciences, 2015, 50, 1-8.	1.5	22
112	Effect of Atomic Layer Deposition Temperature on the Growth Orientation, Morphology, and Electrical, Optical, and Band-Structural Properties of ZnO and Fluorine-Doped ZnO Thin Films. Journal of Physical Chemistry C, 2018, 122, 377-385.	1.5	22
113	Study of the effect of stress/strain of mesoporous Al-doped ZnO thin films on thermoelectric properties. Solid State Sciences, 2018, 82, 84-91.	1.5	22
114	Structural, morphological, and optical studies of hydrothermally synthesized Nb-added TiO2 for DSSC application. Ceramics International, 2021, 47, 25580-25592.	2.3	22
115	Fabrication and Characterization of Pt-Oxide Electrode for Ferroelectric Random Access Memory Application. Japanese Journal of Applied Physics, 2000, 39, 7097-7099.	0.8	21
116	Investigation of the bonding states of the SiO2 aerogel film/metal interface. Thin Solid Films, 2004, 447-448, 575-579.	0.8	21
117	Improvement of uncooled infrared imaging detector by using mesoporous silica as a thermal isolation layer. Ceramics International, 2008, 34, 833-836.	2.3	21
118	Silica xerogel films hybridized with carbon nanotubes by single step solâ€“gel processing. Journal of Non-Crystalline Solids, 2012, 358, 550-556.	1.5	21
119	CO gas sensing properties of direct-patternable TiO2 thin films containing multi-wall carbon nanotubes. Thin Solid Films, 2013, 529, 89-93.	0.8	21
120	Anisotropy of the thermoelectric figure of merit (ZT) in textured Ca3Co4O9 ceramics prepared by using a spark plasma sintering process. Journal of the Korean Physical Society, 2015, 66, 794-799.	0.3	21
121	Hydrophobic silica composite aerogels using poly(methyl methacrylate) by rapid supercritical extraction process. Journal of Sol-Gel Science and Technology, 2017, 83, 692-697.	1.1	21
122	Structural, morphological, and magnetic properties of ZnxCo1-xFe2O4 (0â€¯â‰¤â€¯xâ€¯â‰¤â€¯1) prepared using a chemical co-precipitation method. Ceramics International, 2018, 44, 20782-20789.	2.3	21
123	Dioxybenzene-bridged hydrophobic silica aerogels with enhanced textural and mechanical properties. Microporous and Mesoporous Materials, 2020, 294, 109863.	2.2	21
124	Al/F codoping effect on the structural, electrical, and optical properties of ZnO films grown via atomic layer deposition. Applied Surface Science, 2021, 535, 147734.	3.1	21
125	Ultrasonically dispersed ultrathin g-C3N4 nanosheet/BaBi2Nb2O9 heterojunction photocatalysts for efficient photocatalytic degradation of organic pollutant. Journal of Alloys and Compounds, 2021, 884, 161037.	2.8	21
126	Microstructure and electrical properties of Ln2Ti2O7 (Ln=La, Nd). Thin Solid Films, 2002, 420-421, 575-578.	0.8	20

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127	Electrical and mechanical properties of surfactant-templated mesoporous silica thin films using Brij-76 surfactant. Applied Surface Science, 2005, 244, 47-50.	3.1	20
128	Energy band structure and electrical properties of (La2O3)1âˆ'x(SiO2)x(0â©½xâ©½1)âˆ•n-GaAs(001) system. Applied Physics Letters, 2005, 87, 202102.	1.5	20
129	The improvement of mechanical and dielectric properties of ordered mesoporous silica film using TEOSâ€“MTES mixed silica precursor. Ceramics International, 2008, 34, 947-951.	2.3	20
130	Effect of porosity on the Seebeck coefficient of mesoporous TiO2 thin films. Thin Solid Films, 2010, 518, 7196-7198.	0.8	20
131	The CO gas sensing properties of direct-patternable SnO₂ films containing graphene or Ag nanoparticles. New Journal of Chemistry, 2015, 39, 2256-2260.	1.4	20
132	Enhancement of Seebeck coefficient of mesoporous SrTiO3 with V-group elements V, Nb, and Ta substituted for Ti. Journal of the European Ceramic Society, 2018, 38, 125-130.	2.8	20
133	Phase behavior of ordered mesoporous silica film prepared by Brij-76 block copolymer. Microporous and Mesoporous Materials, 2008, 111, 188-193.	2.2	19
134	Post annealing effect of flexible polymer solar cells to improve their electrical properties. Current Applied Physics, 2010, 10, e192-e196.	1.1	19
135	Effect of boron and silicon doping on the surface and electrical properties of diamond like carbon films by magnetron sputtering technique. Surface and Coatings Technology, 2013, 231, 131-134.	2.2	19
136	Gas sensing properties of ordered mesoporous TiO2 film enhanced by thermal shock induced cracking. Sensors and Actuators B: Chemical, 2013, 181, 874-879.	4.0	19
137	Band Structure Analysis of La_{0.7}Sr_{0.3}MnO₃Perovskite Manganite Using a Synchrotron. Advances in Condensed Matter Physics, 2015, 2015, 1-7.	0.4	19
138	Hardening of Biâ€“Te based alloys by dispersing B4C nanoparticles. Acta Materialia, 2015, 97, 68-74.	3.8	19
139	Highly stable colloidal TiO2 nanocrystals with strong violet-blue emission. Journal of Luminescence, 2016, 178, 89-93.	1.5	19
140	PZT/PZT and PZT/BiT Composite Piezo-Sensors in Aerospace SHM Applications: Photochemical Metal Organic + Infiltration Deposition and Characterization. Sensors, 2019, 19, 13.	2.1	19
141	The structural and electron field emission characteristics of pulsed laser deposited diamond-like carbon films with thermal treatment. Thin Solid Films, 1999, 355-356, 151-156.	0.8	18
142	Optical and electrical properties of ZnO thin film containing nano-sized Ag particles. Journal of Electroceramics, 2009, 22, 353-356.	0.8	18
143	The effect of multiwalled carbon nanotube doping on the CO gas sensitivity of TiO2 xerogel composite film. Applied Surface Science, 2013, 269, 125-128.	3.1	18
144	Ferroelectric Tunnel Junction for Dense Cross-Point Arrays. ACS Applied Materials & Interfaces, 2015, 7, 22348-22354.	4.0	18

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145	Selective photochemical synthesis of Ag nanoparticles on position-controlled ZnO nanorods for the enhancement of yellow-green light emission. Nanoscale, 2015, 7, 20717-20724.	2.8	18
146	Wavelength-tunable visible to near-infrared photoluminescence of carbon dots: the role of quantum confinement and surface states. Journal of Nanophotonics, 2016, 10, 026028.	0.4	18
147	Study on properties of Ga/F-co-doped ZnO thin films prepared using atomic layer deposition. Thin Solid Films, 2018, 660, 913-919.	0.8	18
148	Linear and Symmetric Li-Based Composite Memristors for Efficient Supervised Learning. ACS Applied Materials & Interfaces, 2022, 14, 5673-5681.	4.0	18
149	Characterization of PLZT thin film prepared by photochemical deposition using photosensitive metal-organic precursors. Microelectronic Engineering, 2004, 71, 215-220.	1.1	17
150	Thermoelectric Properties of Indium-Selenium Nanocomposites Prepared by Mechanical Alloying and Spark Plasma Sintering. Journal of Electronic Materials, 2012, 41, 1354-1359.	1.0	17
151	Study on the thermal stability of ordered mesoporous SiO2 film for thermal insulating film. Microporous and Mesoporous Materials, 2012, 158, 123-128.	2.2	17
152	Screen printed carbon nanotube thick film on alumina substrate. Ceramics International, 2017, 43, 4612-4617.	2.3	17
153	Phonon-glass electron-crystals in ZnO-multiwalled carbon nanotube nanocomposites. Nanoscale, 2017, 9, 12941-12948.	2.8	17
154	N-doped Al2O3 thin films deposited by atomic layer deposition. Thin Solid Films, 2018, 660, 657-662.	0.8	17
155	Tunable Dielectric Properties of Poly(vinylidenefluoride-co-hexafluoropropylene) Films with Embedded Fluorinated Barium Strontium Titanate Nanoparticles. Scientific Reports, 2018, 8, 4086.	1.6	17
156	Atomic layer deposition of SnO2 thin films using tetraethyltin and H2O2. Ceramics International, 2019, 45, 20600-20605.	2.3	17
157	Temperature Effects on Electromechanical Response of Deposited Piezoelectric Sensors Used in Structural Health Monitoring of Aerospace Structures. Sensors, 2019, 19, 2805.	2.1	17
158	Electrochemically Synthesized Nanoflowers to Nanosphere-Like NiCuSe2 Thin Films for Efficient Supercapacitor Application. Metals, 2020, 10, 1698.	1.0	17
159	Effect of O 2 plasma treatment on the properties of SiO 2 aerogel film. Thin Solid Films, 1998, 332, 444-448.	0.8	16
160	Crystallization and ferroelectric behavior of sputter deposited PZT using a target containing excess Pb and O contents. Thin Solid Films, 1999, 355-356, 525-530.	0.8	16
161	The effects of cation-substitution on the ferroelectric properties of sol-gel derived PZT thin film for FRAM application. Thin Solid Films, 1999, 355-356, 531-535.	0.8	16
162	Control of surface residual î—¸OH polar bonds in SiO2 aerogel film by silylation. Thin Solid Films, 2002, 420-421, 503-507.	0.8	16

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