

# Hyung-Ho Park

## List of Publications by Citations

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501  
papers

6,844  
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35  
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59  
g-index

528  
ext. papers

7,859  
ext. citations

3.7  
avg, IF

6.12  
L-index

#	Paper	IF	Citations
501	Silica Aerogel: Synthesis and Applications. <i>Journal of Nanomaterials</i> , <b>2010</b> , 2010, 1-11	3.2	411
500	Characteristics of the ZnO thin film transistor by atomic layer deposition at various temperatures. <i>Semiconductor Science and Technology</i> , <b>2009</b> , 24, 035015	1.8	100
499	Compositional and structural analysis of aluminum oxide films prepared by plasma-enhanced chemical vapor deposition. <i>Thin Solid Films</i> , <b>1994</b> , 237, 57-65	2.2	100
498	Self-activated ultrahigh chemosensitivity of oxide thin film nanostructures for transparent sensors. <i>Scientific Reports</i> , <b>2012</b> , 2, 588	4.9	97
497	Ambient pressure dried TEOS-based silica aerogels: good absorbents of organic liquids. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 503-510	4.3	97
496	Crystal structure, properties and nanostructuring of a new layered chalcogenide semiconductor, Bi <sub>2</sub> MnTe <sub>4</sub> . <i>CrystEngComm</i> , <b>2013</b> , 15, 5532	3.3	92
495	Chemiresistive Electronic Nose toward Detection of Biomarkers in Exhaled Breath. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20969-76	9.5	87
494	Preparation and Characterization of Zinc Oxide Nanoparticles Using Leaf Extract of Sambucus ebulus. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3620	2.6	85
493	Extremely sensitive and selective NO probe based on villi-like WO <sub>3</sub> nanostructures for application to exhaled breath analyzers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 10591-6	9.5	84
492	SiO <sub>2</sub> aerogel film as a novel intermetal dielectric. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 1299-1304	2.5	82
491	Ambient-dried low dielectric SiO <sub>2</sub> aerogel thin film. <i>Journal of Non-Crystalline Solids</i> , <b>1997</b> , 221, 151-156	3.9	74
490	Preparation and characterization of porous silica xerogel film for low dielectric application. <i>Thin Solid Films</i> , <b>1997</b> , 308-309, 495-500	2.2	72
489	Effect of metal (Al, Ga, and In)-dopants and/or Ag-nanoparticles on the optical and electrical properties of ZnO thin films. <i>Thin Solid Films</i> , <b>2006</b> , 515, 957-960	2.2	71
488	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. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 98-108	7.1	69
487	The effect of sol viscosity on the sol-gel derived low density SiO <sub>2</sub> xerogel film for intermetal dielectric application. <i>Thin Solid Films</i> , <b>1998</b> , 332, 449-454	2.2	69
486	Structural and Electrical Properties of ZnO Thin Films Deposited by Atomic Layer Deposition at Low Temperatures. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, H738	3.9	66
485	Characteristics of the electromagnetic interference shielding effectiveness of Al-doped ZnO thin films deposited by atomic layer deposition. <i>Applied Surface Science</i> , <b>2013</b> , 269, 92-97	6.7	63

484	Density of state effective mass and related charge transport properties in K-doped BiCuOSe. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 232110	3.4	62
483	Flexible and Transparent Silica Aerogels: An Overview. <i>Journal of the Korean Ceramic Society</i> , <b>2017</b> , 54, 184-199	2.2	60
482	Highly sensitive CO sensors based on cross-linked TiO <sub>2</sub> hollow hemispheres. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 149, 116-121	8.5	59
481	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. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 3650-5	9.5	58
480	A new route to the Mott-Hubbard metal-insulator transition: Strong correlations effects in Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> . <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	57
479	Improvement of breakdown characteristics of a GaAs power field-effect transistor using (NH <sub>4</sub> ) <sub>2</sub> Sx treatment. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 3539-3542	2.5	56
478	Impact of nanostructured thin ZnO film in ultraviolet protection. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 207-216	7.3	55
477	Structurally nanocrystalline-electrically single crystalline ZnO-reduced graphene oxide composites. <i>Nano Letters</i> , <b>2014</b> , 14, 5104-9	11.5	54
476	Concentration-dependent mesostructure of surfactant-templated mesoporous silica thin film. <i>Thin Solid Films</i> , <b>2006</b> , 494, 320-324	2.2	52
475	Chemical and electrical characterization of Gd <sub>2</sub> O <sub>3</sub> /GaAs interface improved by sulfur passivation. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 4811-4816	2.5	51
474	Effect of sputtering power on the physical properties of dc magnetron sputtered copper oxide thin films. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 110, 397-401	4.4	50
473	Effect of grain size of Pb(Zr <sub>0.4</sub> Ti <sub>0.6</sub> )O <sub>3</sub> sol-gel derived thin films on the ferroelectric properties. <i>Applied Surface Science</i> , <b>2001</b> , 169-170, 544-548	6.7	48
472	Optically transparent silica aerogels based on sodium silicate by a two step sol-gel process and ambient pressure drying. <i>Solid State Sciences</i> , <b>2013</b> , 18, 50-57	3.4	47
471	Organically modified silica aerogel with different functional silylating agents and effect on their physico-chemical properties. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 453, 164-171	3.9	46
470	Monolithic and shrinkage-free hydrophobic silica aerogels via new rapid supercritical extraction process. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 107, 84-91	4.2	41
469	All villi-like metal oxide nanostructures-based chemiresistive electronic nose for an exhaled breath analyzer. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 257, 295-302	8.5	40
468	Photo-induced hybrid nanopatterning of titanium dioxide via direct imprint lithography. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1921		40
467	Embossed TiO <sub>2</sub> Thin Films with Tailored Links between Hollow Hemispheres: Synthesis and Gas-Sensing Properties. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 9993-9999	3.8	37

466	Facile Synthesis of SnO <sub>2</sub> /Aerogel/Reduced Graphene Oxide Nanocomposites via in Situ Annealing for the Photocatalytic Degradation of Methyl Orange. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	35
465	Flexible and lightweight Fe <sub>3</sub> O <sub>4</sub> /polymer foam composites for microwave-absorption applications. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 805, 120-129	5.7	35
464	The effect of excess Pb content on the crystallization and electrical properties in sol-gel derived Pb (Zr <sub>0.4</sub> Ti <sub>0.6</sub> )O <sub>3</sub> thin films. <i>Thin Solid Films</i> , <b>2000</b> , 377-378, 739-744	2.2	34
463	Enhanced photocatalytic activity of a mesoporous TiO <sub>2</sub> aerogel decorated onto three-dimensional carbon foam. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 277, 424-433	6	34
462	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. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 132, 403-409	6.4	33
461	Hydrophobic TiO <sub>2</sub> /BiO <sub>2</sub> composite aerogels synthesized via in situ epoxy-ring opening polymerization and sol-gel process for enhanced degradation activity. <i>Ceramics International</i> , <b>2020</b> , 46, 4939-4946	5.1	32
460	Facile nanopatterning of zirconium dioxide films via direct ultraviolet-assisted nanoimprint lithography. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 657-662		31
459	The effects of post-annealing on the performance of ZnO thin film transistors. <i>Thin Solid Films</i> , <b>2011</b> , 519, 8109-8113	2.2	31
458	Atomic force microscopic observation of SrTiO <sub>3</sub> polar surface. <i>Solid State Ionics</i> , <b>1998</b> , 108, 73-79	3.3	31
457	Label-free protein assay with site-directly immobilized antibody using self-actuating PZT cantilever. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 117, 332-338	8.5	31
456	Characterization and removal of silicon surface residue resulting from CHF <sub>3</sub> /C <sub>2</sub> F <sub>6</sub> reactive ion etching. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 4596-4602	2.5	31
455	Facile synthesis of hydrophobic, thermally stable, and insulative organically modified silica aerogels using co-precursor method. <i>Ceramics International</i> , <b>2018</b> , 44, 3966-3972	5.1	31
454	Flexible, elastic, and superhydrophobic silica-polymer composite aerogels by high internal phase emulsion process. <i>Composites Science and Technology</i> , <b>2017</b> , 147, 45-51	8.6	30
453	Hollow Pt-Functionalized SnO Hemipill Network Formation Using a Bacterial Skeleton for the Noninvasive Diagnosis of Diabetes. <i>ACS Sensors</i> , <b>2018</b> , 3, 661-669	9.2	30
452	A route to high sensitivity and rapid response Nb <sub>2</sub> O <sub>5</sub> -based gas sensors: TiO <sub>2</sub> doping, surface embossing, and voltage optimization. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 153, 37-43	8.5	30
451	Application of SiO <sub>2</sub> aerogel film with low dielectric constant to intermetal dielectrics. <i>Thin Solid Films</i> , <b>1997</b> , 308-309, 490-494	2.2	30
450	Evaluation of SiO <sub>2</sub> aerogel thin film with ultra low dielectric constant as an intermetal dielectric. <i>Microelectronic Engineering</i> , <b>1997</b> , 33, 343-348	2.5	30
449	Humidity-Tolerant Single-Stranded DNA-Functionalized Graphene Probe for Medical Applications of Exhaled Breath Analysis. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700068	15.6	29

448	Surface preparation and effective contact formation for GaAs surface. <i>Vacuum</i> , <b>2002</b> , 67, 91-100	3.7	29
447	SnO <sub>2</sub> thin films grown by atomic layer deposition using a novel Sn precursor. <i>Applied Surface Science</i> , <b>2014</b> , 320, 188-194	6.7	28
446	A Power-Generation Test for Oxide-Based Thermoelectric Modules Using p-Type Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> and n-Type Ca <sub>0.9</sub> Nd <sub>0.1</sub> MnO <sub>3</sub> Legs. <i>Journal of Electronic Materials</i> , <b>2012</b> , 41, 1247-1255	1.9	27
445	Leakage current and dielectric breakdown behavior in annealed SiO <sub>2</sub> aerogel films. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 1391-1393	3.4	27
444	A study of the activation behaviour of Zr <sub>2</sub> Cr <sub>2</sub> Ni <sub>2</sub> La metal hydride electrodes in alkaline solution. <i>Journal of Alloys and Compounds</i> , <b>1994</b> , 205, 225-229	5.7	27
443	Improvement in the high temperature thermal insulation performance of Y <sub>2</sub> O <sub>3</sub> opacified silica aerogels. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 727, 871-878	5.7	26
442	The properties of silica aerogels hybridized with SiO <sub>2</sub> nanoparticles by ambient pressure drying. <i>Ceramics International</i> , <b>2012</b> , 38, S105-S108	5.1	26
441	Al <sub>2</sub> O <sub>3</sub> buffer in a ZnO thin film transistor with poly-4-vinylphenol dielectric. <i>Semiconductor Science and Technology</i> , <b>2009</b> , 24, 025008	1.8	26
440	Chemical bonding states and energy band gap of SiO <sub>2</sub> -incorporated La <sub>2</sub> O <sub>3</sub> films on n-GaAs (001). <i>Thin Solid Films</i> , <b>2006</b> , 494, 311-314	2.2	26
439	n-ZnO/p-Si UV photodetectors employing AlO <sub>x</sub> films for antireflection. <i>Thin Solid Films</i> , <b>2004</b> , 447-448, 111-114	2.2	26
438	Characteristics of Zinc-Oxide-Sulfide-Mixed Films Deposited by Using Atomic Layer Deposition. <i>Journal of the Korean Physical Society</i> , <b>2008</b> , 53, 3287-3295	0.6	26
437	Ambient pressure dried tetrapropoxysilane-based silica aerogels with high specific surface area. <i>Solid State Sciences</i> , <b>2018</b> , 75, 63-70	3.4	26
436	Glancing angle deposited WO <sub>3</sub> nanostructures for enhanced sensitivity and selectivity to NO <sub>2</sub> in gas mixture. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 229, 92-99	8.5	25
435	Aluminum-doped zinc oxide formed by atomic layer deposition for use as anodes in organic light emitting diodes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 01A109	2.9	25
434	Effective atomic layer deposition procedure for Al-dopant distribution in ZnO thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2010</b> , 28, 1111-1114	2.9	25
433	Direct patterning of SnO <sub>2</sub> composite films prepared with various contents of Pt nanoparticles by photochemical metal-organic deposition. <i>Thin Solid Films</i> , <b>2011</b> , 519, 6214-6218	2.2	25
432	Direct-patterning of SnO <sub>2</sub> thin film by photochemical metal-organic deposition. <i>Sensors and Actuators A: Physical</i> , <b>2006</b> , 132, 429-433	3.9	25
431	Ferroelectric-gate field effect transistors using Nd <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> /Y <sub>2</sub> O <sub>3</sub> /Si structures. <i>Thin Solid Films</i> , <b>2001</b> , 398-399, 663-667	2.2	25

430	Manganite-based memristive heterojunction with tunable non-linear I-V characteristics. <i>Nanoscale</i> , <b>2015</b> , 7, 6444-50	7.7	24
429	Microwave dielectric properties of barium substituted screen printed CaBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> ceramic thick films. <i>Ceramics International</i> , <b>2018</b> , 44, 7515-7523	5.1	24
428	Mott-transition-based RRAM. <i>Materials Today</i> , <b>2019</b> , 28, 63-80	21.8	24
427	Effect of substrate temperature on the physical properties of dc magnetron sputtered CuAlO <sub>2</sub> films. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 474, 401-405	5.7	23
426	Variations in mechanical and thermal properties of mesoporous alumina thin films due to porosity and ordered pore structure. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 345, 120-4	9.3	23
425	Enhancement of sp <sup>3</sup> hybridized C in amorphous carbon films by Ar ion bombardment and Si incorporation. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 4828	2.5	23
424	Effect of spark plasma sintering conditions on the thermoelectric properties of (Bi <sub>0.25</sub> Sb <sub>0.75</sub> ) <sub>2</sub> Te <sub>3</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 678, 396-402	5.7	23
423	Molecular dynamics and experimental studies of nanoindentation on nanoporous silica aerogels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 742, 344-352	5.3	23
422	Flexible piezoelectric micromachined ultrasonic transducer (pMUT) for application in brain stimulation. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 2321-2328	1.7	22
421	Position-controlled hydrothermal growth of ZnO nanorods on arbitrary substrates with a patterned seed layer via ultraviolet-assisted nanoimprint lithography. <i>CrystEngComm</i> , <b>2013</b> , 15, 3463	3.3	22
420	The characterization of etched GaAs surface with HCl or H <sub>3</sub> PO <sub>4</sub> solutions. <i>Thin Solid Films</i> , <b>1997</b> , 308-309, 634-642	2.2	22
419	Investigation of the bonding states of the SiO <sub>2</sub> aerogel film/metal interface. <i>Thin Solid Films</i> , <b>2004</b> , 447-448, 575-579	2.2	21
418	Effect of prepared GaAs surface on the sulfidation with (NH <sub>4</sub> ) <sub>2</sub> S <sub>x</sub> solution. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1999</b> , 17, 88-92	2.9	21
417	SnO <sub>2</sub> aerogel deposited onto polymer-derived carbon foam for environmental remediation. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 287, 110990	6	20
416	Facile synthesis of a lightweight three-dimensional polymer scaffold dip-coated with multiple layers of TiO <sub>2</sub> aerogel for X-band microwave absorption applications. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 153847	5.7	20
415	Silica xerogel films hybridized with carbon nanotubes by single step sol-gel processing. <i>Journal of Non-Crystalline Solids</i> , <b>2012</b> , 358, 550-556	3.9	20
414	Application of mesoporous TiO <sub>2</sub> as a thermal isolation layer for infrared sensors. <i>Thin Solid Films</i> , <b>2007</b> , 516, 212-215	2.2	20
413	Electrical properties of PZT thin films by photochemical deposition. <i>Thin Solid Films</i> , <b>2004</b> , 447-448, 669-673	2.0	20

412	Structural and electrical properties of co-sputtered fluorinated amorphous carbon film. <i>Thin Solid Films</i> , <b>2002</b> , 420-421, 248-252	2.2	20
411	Electrical and mechanical properties of surfactant-templated mesoporous silica thin films using Brij-76 surfactant. <i>Applied Surface Science</i> , <b>2005</b> , 244, 47-50	6.7	20
410	Fabrication and Characterization of Pt-Oxide Electrode for Ferroelectric Random Access Memory Application. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, 7097-7099	1.4	20
409	Study of the effect of stress/strain of mesoporous Al-doped ZnO thin films on thermoelectric properties. <i>Solid State Sciences</i> , <b>2018</b> , 82, 84-91	3.4	20
408	Non-laminated growth of chlorine-doped zinc oxide films by atomic layer deposition at low temperatures. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8336-8343	7.1	19
407	Synthesis of MWCNTs doped sodium silicate based aerogels by ambient pressure drying. <i>Journal of Sol-Gel Science and Technology</i> , <b>2012</b> , 62, 201-207	2.3	19
406	CO gas sensing properties of direct-patternable TiO <sub>2</sub> thin films containing multi-wall carbon nanotubes. <i>Thin Solid Films</i> , <b>2013</b> , 529, 89-93	2.2	19
405	Effect of porosity on the Seebeck coefficient of mesoporous TiO <sub>2</sub> thin films. <i>Thin Solid Films</i> , <b>2010</b> , 518, 7196-7198	2.2	19
404	Phase behavior of ordered mesoporous silica film prepared by Brij-76 block copolymer. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 111, 188-193	5.3	19
403	Energy band structure and electrical properties of (La <sub>2</sub> O <sub>3</sub> ) <sub>1-x</sub> (SiO <sub>2</sub> ) <sub>x</sub> -GaAs(001) system. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 202102	3.4	19
402	Stacking effect on the ferroelectric properties of PZT/PLZT multilayer thin films formed by photochemical metal-organic deposition. <i>Applied Surface Science</i> , <b>2004</b> , 237, 427-432	6.7	19
401	Porous organic filler for high efficiency of flexible thermoelectric generator. <i>Nano Energy</i> , <b>2021</b> , 81, 105604	6.4	19
400	The CO gas sensing properties of direct-patternable SnO <sub>2</sub> films containing graphene or Ag nanoparticles. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 2256-2260	3.6	18
399	Effect of water ethanol solvents mixture on textural and gas sensing properties of tin oxide prepared using epoxide-assisted sol-gel process and dried at ambient pressure. <i>Solid State Sciences</i> , <b>2015</b> , 50, 1-8	3.4	18
398	Effect of La <sup>3+</sup> substitution with Gd <sup>3+</sup> on the resistive switching properties of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 191604	3.4	18
397	Improvement of uncooled infrared imaging detector by using mesoporous silica as a thermal isolation layer. <i>Ceramics International</i> , <b>2008</b> , 34, 833-836	5.1	18
396	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. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 377-385	3.8	18
395	Enhancement of Seebeck coefficient of mesoporous SrTiO <sub>3</sub> with V-group elements V, Nb, and Ta substituted for Ti. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 125-130	6	17

394	Hardening of BiTe based alloys by dispersing B4C nanoparticles. <i>Acta Materialia</i> , <b>2015</b> , 97, 68-74	8.4	17
393	Improvement in optical and physical properties of TEOS based aerogels using acetonitrile via ambient pressure drying. <i>Ceramics International</i> , <b>2012</b> , 38, 6883-6888	5.1	17
392	Gas sensing properties of ordered mesoporous TiO <sub>2</sub> film enhanced by thermal shock induced cracking. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 181, 874-879	8.5	17
391	Optical and electrical properties of ZnO thin film containing nano-sized Ag particles. <i>Journal of Electroceramics</i> , <b>2009</b> , 22, 353-356	1.5	17
390	The improvement of mechanical and dielectric properties of ordered mesoporous silica film using TEOS/MTEOS mixed silica precursor. <i>Ceramics International</i> , <b>2008</b> , 34, 947-951	5.1	17
389	Microstructure and electrical properties of Ln <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> (Ln=La, Nd). <i>Thin Solid Films</i> , <b>2002</b> , 420-421, 575-578	2	17
388	The structural and electron field emission characteristics of pulsed laser deposited diamond-like carbon films with thermal treatment. <i>Thin Solid Films</i> , <b>1999</b> , 355-356, 151-156	2.2	17
387	Hydrophobic silica composite aerogels using poly(methyl methacrylate) by rapid supercritical extraction process. <i>Journal of Sol-Gel Science and Technology</i> , <b>2017</b> , 83, 692-697	2.3	16
386	Anisotropy of the thermoelectric figure of merit (ZT) in textured Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> ceramics prepared by using a spark plasma sintering process. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 66, 794-799	0.6	16
385	Impurity-free, mechanical doping for the reproducible fabrication of the reliable n-type Bi <sub>2</sub> Te <sub>3</sub> -based thermoelectric alloys. <i>Acta Materialia</i> , <b>2018</b> , 150, 153-160	8.4	16
384	Structural, morphological, and magnetic properties of Zn <sub>x</sub> Co <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> (0 ≤ x ≤ 1) prepared using a chemical co-precipitation method. <i>Ceramics International</i> , <b>2018</b> , 44, 20782-20789	5.1	16
383	Study on the thermal stability of ordered mesoporous SiO <sub>2</sub> film for thermal insulating film. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 158, 123-128	5.3	16
382	Sol-gel synthesis of high surface area nanostructured zirconia powder by surface chemical modification. <i>Powder Technology</i> , <b>2013</b> , 239, 314-318	5.2	16
381	Post annealing effect of flexible polymer solar cells to improve their electrical properties. <i>Current Applied Physics</i> , <b>2010</b> , 10, e192-e196	2.6	16
380	Effect of O <sub>2</sub> plasma treatment on the properties of SiO <sub>2</sub> aerogel film. <i>Thin Solid Films</i> , <b>1998</b> , 332, 444-448	4.8	16
379	Study of Ag nanoparticles incorporated SnO <sub>2</sub> transparent conducting films by photochemical metal-organic deposition. <i>Thin Solid Films</i> , <b>2007</b> , 516, 198-202	2.2	16
378	Characterization of PLZT thin film prepared by photochemical deposition using photosensitive metal-organic precursors. <i>Microelectronic Engineering</i> , <b>2004</b> , 71, 215-220	2.5	16
377	Superhydrophobic and Compressible Silica-polyHIPE Covalently Bonded Porous Networks via Emulsion Templating for Oil Spill Cleanup and Recovery. <i>Scientific Reports</i> , <b>2018</b> , 8, 16783	4.9	16

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375	Effect of excess Pb and O content on the ferroelectric properties of sputter deposited Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> /Pt system. <i>Thin Solid Films</i> , <b>1998</b> , 332, 300-304	2.2	15
374	Investigation of the properties of organically modified ordered mesoporous silica films. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 320, 527-34	9.3	15
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371	The effect of intermediate anneal on the ferroelectric properties of direct-patternable PZT films. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 117, 137-142	3.9	15
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369	Silylation of sodium silicate-based silica aerogel using trimethylethoxysilane as alternative surface modification agent. <i>Journal of Sol-Gel Science and Technology</i> , <b>2018</b> , 87, 319-330	2.3	15
368	Screen printed carbon nanotube thick film on alumina substrate. <i>Ceramics International</i> , <b>2017</b> , 43, 4612-4617	4.1	14
367	Control of electrical conductivity of highly stacked zinc oxide nanocrystals by ultraviolet treatment. <i>Scientific Reports</i> , <b>2019</b> , 9, 6244	4.9	14
366	Selective photochemical synthesis of Ag nanoparticles on position-controlled ZnO nanorods for the enhancement of yellow-green light emission. <i>Nanoscale</i> , <b>2015</b> , 7, 20717-24	7.7	14
365	Structural and mechanical properties of hybrid silica aerogel formed using triethoxy(1-phenylethenyl)silane. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 298, 110092	5.3	14
364	Study on properties of Ga/F-co-doped ZnO thin films prepared using atomic layer deposition. <i>Thin Solid Films</i> , <b>2018</b> , 660, 913-919	2.2	14
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362	Phonon-glass electron-crystals in ZnO-multiwalled carbon nanotube nanocomposites. <i>Nanoscale</i> , <b>2017</b> , 9, 12941-12948	7.7	14
361	Band Structure Analysis of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Perovskite Manganite Using a Synchrotron. <i>Advances in Condensed Matter Physics</i> , <b>2015</b> , 2015, 1-7	1	14
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359	Thermoelectric Properties of Indium-Selenium Nanocomposites Prepared by Mechanical Alloying and Spark Plasma Sintering. <i>Journal of Electronic Materials</i> , <b>2012</b> , 41, 1354-1359	1.9	14

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357	Fabrication and electromechanical properties of a self-actuating Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> microcantilever using a direct patternable sol-gel method. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 042904	3.4	14
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354	Influence of preferred orientation of lead zirconate titanate thin film on the ferroelectric properties. <i>Applied Surface Science</i> , <b>2001</b> , 169-170, 549-552	6.7	14
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343	The effects of plasma treatment on SiO <sub>2</sub> aerogel film using various reactive (O <sub>2</sub> , H <sub>2</sub> , N <sub>2</sub> ) and non-reactive (He, Ar) gases. <i>Thin Solid Films</i> , <b>2000</b> , 377-378, 525-529	2.2	13
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335	Electric and ferroelectric properties of PZT/BLT multilayer films prepared by photochemical metal-organic deposition. <i>Applied Surface Science</i> , <b>2009</b> , 255, 4197-4200	6.7	12
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250	Effect of GaAs surface treatments using HCl or (NH <sub>4</sub> ) <sub>2</sub> Sx solutions on the interfacial bonding states induced by deposition of Au. <i>Thin Solid Films</i> , <b>1998</b> , 332, 437-443	2.2	8
249	The investigation of thermal effect on the properties of pulsed laser deposited diamond-like carbon films. <i>Thin Solid Films</i> , <b>1998</b> , 332, 103-108	2.2	8
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245	Comparative study between poly(p-phenylenevinylene) (PPV) and PPV/SiO <sub>2</sub> nano-composite for interface with aluminum electrode. <i>Applied Surface Science</i> , <b>2004</b> , 237, 451-456	6.7	8
244	Changes in the electronic energy structure of CdSe nanocrystals of close-packed array by in situ anneal. <i>Applied Surface Science</i> , <b>2005</b> , 244, 92-95	6.7	8
243	Thermal-stress stability of yttrium oxide as a buffer layer of metal-ferroelectric-insulator-semiconductor field effect transistor. <i>Thin Solid Films</i> , <b>2005</b> , 473, 335-339	2.2	8
242	The Effect of Ar+Ion Bombardment on SiO <sub>2</sub> Aerogel Film. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, 6955-6958	1.4	8
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239	Ti doping effects on the Seebeck coefficient and electrical conductivity of mesoporous ZnO thin film. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 235, 121757	4.4	7
238	Enhanced Charge Transport in ZnO Nanocomposite Through Interface Control Using Multiwall Carbon Nanotubes. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2077-2082	3.8	7
237	The Effect of Mesoporous Structure on the Thermoelectric Properties of Nonstoichiometric La-Doped SrTiO <sub>3</sub> . <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, E155-E158	3.9	7
236	Piezoelectric Transducers on Curved Dispersive Bending Wave and Poke-Charged Touch Screens. <i>Materials and Manufacturing Processes</i> , <b>2014</b> , 29, 870-876	4.1	7
235	A study of resistive switching property in Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> , CaMnO <sub>3</sub> , and their bi-layer films. <i>Thin Solid Films</i> , <b>2013</b> , 529, 347-351	2.2	7
234	The effect of Sr concentration on resistive switching properties of La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> films. <i>Thin Solid Films</i> , <b>2013</b> , 529, 352-355	2.2	7
233	A study on the electrical properties of fluorine doped direct-patternable SnO <sub>2</sub> thin films. <i>Ceramics International</i> , <b>2012</b> , 38, S609-S612	5.1	7

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226	Effect of solvent on the preparation of ambient pressure-dried SiO <sub>2</sub> aerogel films. <i>Microelectronic Engineering</i> , <b>2003</b> , 65, 113-122	2.5	7
225	Modification of GaAs and copper surface by the formation of SiO <sub>2</sub> aerogel film as an interlayer dielectric. <i>Applied Surface Science</i> , <b>2003</b> , 216, 98-105	6.7	7
224	Highly Dispersed Pt Clusters on F-Doped Tin(IV) Oxide Aerogel Matrix: An Ultra-Robust Hybrid Catalyst for Enhanced Hydrogen Evolution. <i>ACS Nano</i> , <b>2022</b> , 16, 1625-1638	16.7	7
223	Effect of differentiated textural properties of tin oxide aerogels on anode performance in lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 732, 511-517	5.7	7
222	Carrier Modulation in Bi <sub>2</sub> Te <sub>3</sub> -Based Alloys via Interfacial Doping with Atomic Layer Deposition. <i>Coatings</i> , <b>2020</b> , 10, 572	2.9	6
221	Evolution of textural characteristics of surfactant-mediated mesoporous zirconia aerogel powders prepared via ambient pressure drying route. <i>International Nano Letters</i> , <b>2018</b> , 8, 221-228	5.7	6
220	Atomic layer deposition of SnO <sub>2</sub> thin films using tetraethyltin and H <sub>2</sub> O <sub>2</sub> . <i>Ceramics International</i> , <b>2019</b> , 45, 20600-20605	5.1	6
219	Preparation of Sodium Silicate Based Aerogels Using a Two-Step Sol-Gel Process and Ambient Pressure Drying. <i>Macromolecular Symposia</i> , <b>2019</b> , 387, 1800226	0.8	6
218	Phase analysis and thermoelectric properties of Zn <sub>1-x</sub> MxO (M= Al, Ga) samples. <i>Surface and Interface Analysis</i> , <b>2012</b> , 44, 1507-1510	1.5	6
217	Use of ordered mesoporous SiO <sub>2</sub> as protection against thermal disturbance in phase-change memory. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 144102	3.4	6
216	Fabrication and Characterization of Direct-Patternable ZnO Films Containing Pt Nanoparticles. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 035504	1.4	6
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209	Electrical properties of UV-irradiated thick film piezo-sensors on superalloy IN718 using photochemical metal organic deposition. <i>Thin Solid Films</i> , <b>2016</b> , 616, 673-679	2.2	6
208	The thermoelectric properties of Au nanoparticle-incorporated Al-doped mesoporous ZnO thin films. <i>Royal Society Open Science</i> , <b>2019</b> , 6, 181799	3.3	5
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164	Investigation on the interface formation of ambient-pressure-dried SiO <sub>2</sub> aerogel film deposited on GaAs. <i>Vacuum</i> , <b>2002</b> , 67, 155-159	3.7	4
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