

# Jong-Heun Lee

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

351  
papers

19,216  
citations

78  
h-index

124  
g-index

375  
ext. papers

21,500  
ext. citations

6.7  
avg, IF

7.37  
L-index

#	Paper	IF	Citations
351	Facile and rapid fabrication of porous CuBr films by solution oxidation and their application for the exclusive detection of NH <sub>3</sub> at room temperature. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 950-959	13	0
350	Machine Learning-Based Discrimination of Indoor Pollutants Using an Oxide Gas Sensor Array: High Endurance against Ambient Humidity and Temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 131894	8.5	1
349	A Transparent Nanopatterned Chemiresistor: Visible-Light Plasmonic Sensor for Trace-Level NO Detection at Room Temperature. <i>Small</i> , <b>2021</b> , 17, e2100438	11	11
348	Visible-Light-Activated Type II Heterojunction in Cu(hexahydroxytriphenylene)/FeO Hybrids for Reversible NO Sensing: Critical Role of $\pi$ Transition. <i>ACS Central Science</i> , <b>2021</b> , 7, 1176-1182	16.8	10
347	Highly sensitive xylene sensors using Fe <sub>2</sub> O <sub>3</sub> -ZnFe <sub>2</sub> O <sub>4</sub> composite spheres. <i>Journal of Sensor Science and Technology</i> , <b>2021</b> , 30, 191-195	0.3	
346	Tailored Graphene Micropatterns by Wafer-Scale Direct Transfer for Flexible Chemical Sensor Platform. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004827	24	20
345	A General Solution to Mitigate Water Poisoning of Oxide Chemiresistors: Bilayer Sensors with Tb <sub>4</sub> O <sub>7</sub> Overlayer. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007895	15.6	6
344	Pure and Pr-doped Ce <sub>4</sub> W <sub>9</sub> O <sub>33</sub> with superior hydroxyl scavenging ability: humidity-independent oxide chemiresistors. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16359-16369	13	4
343	MOF-Based Hybrids for Solar Fuel Production. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003052	21.8	25
342	Highly Selective Detection of Benzene and Discrimination of Volatile Aromatic Compounds Using Oxide Chemiresistors with Tunable Rh-TiO Catalytic Overlayers. <i>Advanced Science</i> , <b>2021</b> , 8, 2004078	13.6	23
341	Bimetallic Zeolitic Imidazolate Framework Derived Co <sub>3</sub> O <sub>4</sub> /CoFe <sub>2</sub> O <sub>4</sub> Catalyst Loaded In <sub>2</sub> O <sub>3</sub> Nanofibers for Highly Sensitive and Selective Ethanol Sensing. <i>Journal of Sensor Science and Technology</i> , <b>2021</b> , 30, 94-98	0.3	1
340	Hybrid Photocatalysts: MOF-Based Hybrids for Solar Fuel Production (Adv. Energy Mater. 27/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170106	21.8	1
339	Highly selective, sensitive, and rapidly responding acetone sensor using ferroelectric $\text{BiWO}_3$ spheres doped with Nb for monitoring ketogenic diet efficiency. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 338, 129823	8.5	11
338	Roles of Polymerized Anionic Clusters Stimulating for Hydrolysis Deterioration in Li <sub>7</sub> P <sub>3</sub> S <sub>11</sub> . <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 19509-19516	3.8	0
337	Exclusive and ultrasensitive detection of formaldehyde at room temperature using a flexible and monolithic chemiresistive sensor. <i>Nature Communications</i> , <b>2021</b> , 12, 4955	17.4	15
336	Naturally diffused sintering aid for highly conductive bilayer electrolytes in solid oxide cells. <i>Science Advances</i> , <b>2021</b> , 7, eabj8590	14.3	4
335	Selective dual detection of hydrogen sulfide and methyl mercaptan using CuO/CuFe <sub>2</sub> O <sub>4</sub> nanopattern chemiresistors. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 348, 130665	8.5	1

334	Heterostructure between WO <sub>3</sub> and metal organic framework-derived BiVO <sub>4</sub> nanoleaves for enhanced photoelectrochemical performances. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131496	14.7	7
333	Topographically designed hybrid nanostructures via nanotransfer printing and block copolymer self-assembly. <i>Nanoscale</i> , <b>2021</b> , 13, 11161-11168	7.7	0
332	Superionic Halogen-Rich Li-Argyrodites Using In Situ Nanocrystal Nucleation and Rapid Crystal Growth. <i>Nano Letters</i> , <b>2020</b> , 20, 2303-2309	11.5	36
331	A New Strategy for Detecting Plant Hormone Ethylene Using Oxide Semiconductor Chemiresistors: Exceptional Gas Selectivity and Response Tailored by Nanoscale CrO Catalytic Overlayer. <i>Advanced Science</i> , <b>2020</b> , 7, 1903093	13.6	17
330	Methylbenzene sensors using Ti-doped NiO multiroom spheres: Versatile tunability on selectivity, response, sensitivity, and detection limit. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 308, 127730	8.5	14
329	Chemiresistive trimethylamine sensor using monolayer SnO <sub>2</sub> inverse opals decorated with Cr <sub>2</sub> O <sub>3</sub> nanoclusters. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 309, 127805	8.5	16
328	Towards an efficient anode material for Li-ion batteries: understanding the conversion mechanism of nickel hydroxy chloride with Li- ions. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1939-1946	13	17
327	2D metal-organic framework derived co-loading of Co <sub>3</sub> O <sub>4</sub> and PdO nanocatalysts on In <sub>2</sub> O <sub>3</sub> hollow spheres for tailored design of high-performance breath acetone sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 325, 128821	8.5	20
326	Rational Design of Semiconductor-Based Chemiresistors and their Libraries for Next-Generation Artificial Olfaction. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002075	24	90
325	Functionalized Sulfide Solid Electrolyte with Air-Stable and Chemical-Resistant Oxysulfide Nanolayer for All-Solid-State Batteries. <i>ACS Omega</i> , <b>2020</b> , 5, 26015-26022	3.9	19
324	Solid oxide fuel cells with zirconia/ceria bilayer electrolytes via roll calendaring process. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 846, 156318	5.7	10
323	Conversion Reaction Mechanism of Ultrafine Bimetallic Co-Fe Selenides Embedded in Hollow Mesoporous Carbon Nanospheres and Their Excellent K-Ion Storage Performance. <i>Small</i> , <b>2020</b> , 16, e2002345	11.4	22
322	General Strategy for Designing Highly Selective Gas-Sensing Nanoreactors: Morphological Control of SnO Hollow Spheres and Configurational Tuning of Au Catalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 51607-51615	9.5	14
321	Thermally assisted nanotransfer printing with sub-20-nm resolution and 8-inch wafer scalability. <i>Science Advances</i> , <b>2020</b> , 6, eabb6462	14.3	15
320	Highly Conductive and Flexible Dopamine-Graphene Hybrid Electronic Textile Yarn for Sensitive and Selective NO Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 46629-46638	9.5	13
319	Dual-mode gas sensor for ultrasensitive and highly selective detection of xylene and toluene using Nb-doped NiO hollow spheres. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 301, 127140	8.5	51
318	Au decoration of a graphene microchannel for self-activated chemoresistive flexible gas sensors with substantially enhanced response to hydrogen. <i>Nanoscale</i> , <b>2019</b> , 11, 2966-2973	7.7	38
317	Extremely selective detection of ppb levels of indoor xylene using CoCrO hollow spheres activated by Pt doping. <i>Chemical Communications</i> , <b>2019</b> , 55, 751-754	5.8	15

316	Rational Design of Branched WO <sub>3</sub> Nanorods Decorated with BiVO <sub>4</sub> Nanoparticles by All-Solution Processing for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 4535-4543	6.1	24
315	Unique structured microspheres with multishells comprising graphitic carbon-coated Fe <sub>3</sub> O <sub>4</sub> hollow nanopowders as anode materials for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15766-15773	13	40
314	Synthesis Process of CoSeO Microspheres for Unordinary Li-ion Storage Performances and Mechanism of Their Conversion Reaction with Li ions. <i>Small</i> , <b>2019</b> , 15, e1901320	11	35
313	Metal Oxide Gas Sensors with Au Nanocluster Catalytic Overlayer: Toward Tuning Gas Selectivity and Response Using a Novel Bilayer Sensor Design. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32169-32177	9.5	48
312	Humidity-Independent Gas Sensors Using Pr-Doped InO Macroporous Spheres: Role of Cyclic Pr/Pr Redox Reactions in Suppression of Water-Poisoning Effect. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 25322-25329	9.5	56
311	Gas sensors using ordered macroporous oxide nanostructures. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1626-1639	5.1	59
310	Investigation of Binary Metal (Ni, Co) Selenite as Li-Ion Battery Anode Materials and Their Conversion Reaction Mechanism with Li Ions. <i>Small</i> , <b>2019</b> , 15, e1905289	11	25
309	Metal oxide patterns of one-dimensional nanofibers: on-demand, direct-write fabrication, and application as a novel platform for gas detection. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24919-24928 <sup>13</sup>		14
308	NH <sub>2</sub> -MIL-125(Ti)/TiO <sub>2</sub> nanorod heterojunction photoanodes for efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 511-518	21.8	83
307	Discriminative detection of indoor volatile organic compounds using a sensor array based on pure and Fe-doped In <sub>2</sub> O <sub>3</sub> nanofibers. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 285, 193-200	8.5	44
306	Highly Sensitive and Selective PbTiO Gas Sensors with Negligible Humidity Interference in Ambient Atmosphere. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5240-5246	9.5	24
305	Technological realization of semiconducting metal oxideBased gas sensors <b>2019</b> , 167-216		4
304	Metal-Organic Framework-Derived Hollow Hierarchical CoO Nanocages with Tunable Size and Morphology: Ultrasensitive and Highly Selective Detection of Methylbenzenes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 8860-8868	9.5	96
303	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS <sub>2</sub> van der Waals composites. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5016-5024	13	84
302	Configuring PS <sub>x</sub> tetrahedral clusters in Li-excess Li <sub>7</sub> P <sub>3</sub> S <sub>11</sub> solid electrolyte. <i>APL Materials</i> , <b>2018</b> , 6, 047907		8
301	High-temperature electrolysis of CO <sub>2</sub> -enriched mixtures by using fuel-electrode supported La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3</sub> /YSZ/Ni-YSZ solid oxide cells. <i>Journal of Power Sources</i> , <b>2018</b> , 378, 369-374	8.9	11
300	Dual Role of Multiroom-Structured Sn-Doped NiO Microspheres for Ultrasensitive and Highly Selective Detection of Xylene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 16605-16612	9.5	73
299	Dependence of photoluminescence of Bi-doped Y <sub>2</sub> O <sub>3</sub> phosphor thin films on oxygen content in the sputtering atmosphere. <i>Thin Solid Films</i> , <b>2018</b> , 650, 1-6	2.2	1

298	Visible light assisted NO <sub>2</sub> sensing at room temperature by CdS nanoflake array. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 2963-2970	8.5	49
297	Highly selective and sensitive detection of NO <sub>2</sub> using rGO-In <sub>2</sub> O <sub>3</sub> structure on flexible substrate at low temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 1671-1679	8.5	46
296	Flexible Room-Temperature NH <sub>3</sub> Sensor for Ultrasensitive, Selective, and Humidity-Independent Gas Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27858-27867	9.5	110
295	Au decoration of vertical hematite nanotube arrays for further selective detection of acetone in exhaled breath. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 274, 587-594	8.5	21
294	Highly discriminative and sensitive detection of volatile organic compounds for monitoring indoor air quality using pure and Au-loaded 2D In <sub>2</sub> O <sub>3</sub> inverse opal thin films. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 273, 1-8	8.5	21
293	Structural and Electrochemical Properties of Dense Yttria-Doped Barium Zirconate Prepared by Solid-State Reactive Sintering. <i>Energies</i> , <b>2018</b> , 11, 3083	3.1	17
292	Hollow spheres of CoCr <sub>2</sub> O <sub>4</sub> /Ti <sub>2</sub> O <sub>3</sub> mixed oxides with nanoscale heterojunctions for exclusive detection of indoor xylene. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 10767-10774	7.1	25
291	Humidity-Independent Oxide Semiconductor Chemiresistors Using Terbium-Doped SnO <sub>2</sub> Yolk-Shell Spheres for Real-Time Breath Analysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18886-18894	9.5	67
290	Molybdenum trioxide nanopaper as a dual gas sensor for detecting trimethylamine and hydrogen sulfide. <i>RSC Advances</i> , <b>2017</b> , 7, 3680-3685	3.7	35
289	Synergetically Selective Toluene Sensing in Hematite-Decorated Nickel Oxide Nanocorals. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600259	6.8	32
288	Synthesis and Characterization of CuO Nanodisks for High-Sensitive and Selective Ethanol Gas Sensor Applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 1455-459	1.3	19
287	Ultra-selective detection of sub-ppm-level benzene using Pd@SnO <sub>2</sub> yolk-shell micro-reactors with a catalytic Co <sub>3</sub> O <sub>4</sub> overlayer for monitoring air quality. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1446-1454	13	90
286	Effects of chemical and physical defects on the humidity sensitivity of graphene surface. <i>Chemical Physics Letters</i> , <b>2017</b> , 689, 206-211	2.5	2
285	Toward breath analysis on a chip for disease diagnosis using semiconductor-based chemiresistors: recent progress and future perspectives. <i>Lab on A Chip</i> , <b>2017</b> , 17, 3537-3557	7.2	121
284	NiO/NiWO <sub>3</sub> Composite Yolk-Shell Spheres with Nanoscale NiO Outer Layer for Ultrasensitive and Selective Detection of Subppm-level p-Xylene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 32034-32043	9.5	66
283	Chemically fluorinated graphene oxide for room temperature ammonia detection at ppb levels. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19116-19125	13	58
282	Catalysts characteristics of Ni/YSZ core-shell according to plating conditions using electroless plating. <i>Metals and Materials International</i> , <b>2017</b> , 23, 1227-1233	2.4	3
281	Nanolevel Control of Gas Sensing Characteristics via p-n Heterojunction between Rh <sub>2</sub> O <sub>3</sub> Clusters and WO <sub>3</sub> Crystallites. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24701-24706	3.8	35

280	Gas Selectivity Control in CoO Sensor via Concurrent Tuning of Gas Reforming and Gas Filtering using Nanoscale Hetero-Overlayer of Catalytic Oxides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 41397-41404	9.5	30
279	In-situ nano-alloying Pd-Ni for economical control of syngas production from high-temperature thermo-electrochemical reduction of steam/CO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 200, 265-273	21.8	44
278	A strategy for ultrasensitive and selective detection of methylamine using p-type Cr <sub>2</sub> O <sub>3</sub> : Morphological design of sensing materials, control of charge carrier concentrations, and configurational tuning of Au catalysts. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 240, 1049-1057	8.5	42
277	Highly Sensitive and Selective Ethanol Sensors Using Magnesium doped Indium Oxide Hollow Spheres. <i>Journal of the Korean Ceramic Society</i> , <b>2017</b> , 54, 303-307	2.2	4
276	Vapor-phase growth of urchin-like Mg-doped ZnO nanowire networks and their application to highly sensitive and selective detection of ethanol. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 223, 527-534	8.5	40
275	Toward High-Performance Hematite Nanotube Photoanodes: Charge-Transfer Engineering at Heterointerfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23793-800	9.5	21
274	Degradation of hydration kinetics of proton-conducting Ba(Zr <sub>0.84</sub> Y <sub>0.15</sub> Cu <sub>0.01</sub> )O <sub>3</sub> during conductivity-relaxation experiment. <i>Journal of Power Sources</i> , <b>2016</b> , 332, 299-304	8.9	3
273	Catalytic Effect of Pd-Ni Bimetallic Catalysts on High-Temperature Co-Electrolysis of Steam/CO <sub>2</sub> Mixtures. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F3171-F3178	3.9	13
272	Highly selective and sensitive xylene sensors using Cr <sub>2</sub> O <sub>3</sub> -ZnCr <sub>2</sub> O <sub>4</sub> hetero-nanostructures prepared by galvanic replacement. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 235, 498-506	8.5	49
271	Ultrasensitive reversible oxygen sensing by using liquid-exfoliated MoS <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6070-6076	13	61
270	Trimodally porous SnO <sub>2</sub> nanospheres with three-dimensional interconnectivity and size tunability: a one-pot synthetic route and potential application as an extremely sensitive ethanol detector. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e244-e244	10.3	64
269	Highly sensitive and selective detection of ppb-level NO <sub>2</sub> using multi-shelled WO <sub>3</sub> yolk-shell spheres. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 229, 561-569	8.5	68
268	Co <sub>3</sub> O <sub>4</sub> -SnO <sub>2</sub> Hollow Heteronanostructures: Facile Control of Gas Selectivity by Compositional Tuning of Sensing Materials via Galvanic Replacement. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7877-83	9.5	129
267	Role of Pd nanoparticles in gas sensing behaviour of Pd@In <sub>2</sub> O <sub>3</sub> yolk-shell nanoreactors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 264-269	13	84
266	Highly Sensitive Ethanol Gas Sensors Based on Ag-Doped ZnO Nanocones. <i>Nanoscience and Nanotechnology Letters</i> , <b>2016</b> , 8, 241-246	0.8	9
265	A Volatile Organic Compound Sensor Using Porous Co <sub>3</sub> O <sub>4</sub> Spheres. <i>Journal of the Korean Ceramic Society</i> , <b>2016</b> , 53, 134-138	2.2	5
264	Highly Sensitive Trimethylamine Sensing Characteristics of V-doped NiO Porous Structures. <i>Journal of Sensor Science and Technology</i> , <b>2016</b> , 25, 218-222	0.3	
263	Design of Highly Selective Gas Sensors via Physicochemical Modification of Oxide Nanowires: Overview. <i>Sensors</i> , <b>2016</b> , 16,	3.8	54

262	Monolayer Co <sub>3</sub> O <sub>4</sub> Inverse Opals as Multifunctional Sensors for Volatile Organic Compounds. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 7102-7	4.8	37
261	Highly Selective Xylene Sensor Based on NiO/NiMoO Nanocomposite Hierarchical Spheres for Indoor Air Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34603-34611	9.5	90
260	Extremely sensitive ethanol sensor using Pt-doped SnO <sub>2</sub> hollow nanospheres prepared by Kirkendall diffusion. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 234, 353-360	8.5	68
259	Development of highly sensitive and selective ethanol sensor based on lance-shaped CuO nanostructures. <i>Materials and Design</i> , <b>2016</b> , 105, 16-24	8.1	84
258	Superior Na-ion storage properties of high aspect ratio SnSe nanoplates prepared by a spray pyrolysis process. <i>Nanoscale</i> , <b>2016</b> , 8, 11889-96	7.7	55
257	A New Strategy for Humidity Independent Oxide Chemiresistors: Dynamic Self-Refreshing of In <sub>2</sub> O <sub>3</sub> Sensing Surface Assisted by Layer-by-Layer Coated CeO <sub>2</sub> Nanoclusters. <i>Small</i> , <b>2016</b> , 12, 4229-40	11	128
256	Improvement of uniformity in chemical vapor deposition of silicon carbide by using CFD. <i>Journal of the Korean Physical Society</i> , <b>2016</b> , 68, 170-175	0.6	3
255	Pure and palladium-loaded Co <sub>3</sub> O <sub>4</sub> hollow hierarchical nanostructures with giant and ultrasensitive chemiresistivity to xylene and toluene. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 5872-8	4.8	48
254	Highly selective and sensitive xylene sensors using Ni-doped branched ZnO nanowire networks. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 216, 358-366	8.5	75
253	Determination of Electronic and Ionic Partial Conductivities of BaCeO <sub>3</sub> with Yb and In Doping. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, F789-F795	3.9	12
252	Kilogram-scale synthesis of Pd-loaded quintuple-shelled Co <sub>3</sub> O <sub>4</sub> microreactors and their application to ultrasensitive and ultrasensitive detection of methylbenzenes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 7717-23	9.5	45
251	Role of oxygen functional groups in graphene oxide for reversible room-temperature NO <sub>2</sub> sensing. <i>Carbon</i> , <b>2015</b> , 91, 178-187	10.4	138
250	Design and synthesis of micron-sized spherical aggregates composed of hollow Fe <sub>2</sub> O <sub>3</sub> nanospheres for use in lithium-ion batteries. <i>Nanoscale</i> , <b>2015</b> , 7, 8361-7	7.7	54
249	Design and processing parameters of La <sub>2</sub> NiO <sub>4</sub> +δ based cathode for anode-supported planar solid oxide fuel cells (SOFCs). <i>Journal of Power Sources</i> , <b>2015</b> , 297, 370-378	8.9	23
248	Synthesis and electrochemical properties of spherical and hollow-structured NiO aggregates created by combining the Kirkendall effect and Ostwald ripening. <i>Nanoscale</i> , <b>2015</b> , 7, 19620-6	7.7	59
247	Noble metal@metal oxide semiconductor core@shell nano-architectures as a new platform for gas sensor applications. <i>RSC Advances</i> , <b>2015</b> , 5, 76229-76248	3.7	148
246	Perforated Metal Oxide-Carbon Nanotube Composite Microspheres with Enhanced Lithium-Ion Storage Properties. <i>ACS Nano</i> , <b>2015</b> , 9, 10173-85	16.7	84
245	Superior electrochemical properties of spherical-like Co <sub>2</sub> (OH) <sub>3</sub> Cl-reduced graphene oxide composite powders with ultrafine nanocrystals. <i>Carbon</i> , <b>2015</b> , 84, 14-23	10.4	19

244	A new concept for obtaining SnO <sub>2</sub> fiber-in-tube nanostructures with superior electrochemical properties. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 371-6	4.8	55
243	Ultrasensitive detection of trimethylamine using Rh-doped SnO <sub>2</sub> hollow spheres prepared by ultrasonic spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 207, 330-337	8.5	68
242	Electrochemical properties of yolk-shell-structured Zn-Fe-S multicomponent sulfide materials with a 1:2 Zn/Fe molar ratio. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 1429-33	4.8	15
241	Phase-pure NiMoO <sub>4</sub> yolk-shell spheres for high-performance anode materials in lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 174, 102-110	6.7	46
240	Ultrasensitive and ultrasensitive detection of H <sub>2</sub> S using electrospun CuO-loaded In <sub>2</sub> O <sub>3</sub> nanofiber sensors assisted by pulse heating. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 209, 934-942	8.5	105
239	Highly reversible switching from P- to N-type NO <sub>2</sub> sensing in a monolayer Fe <sub>2</sub> O <sub>3</sub> inverse opal film and the associated P-N transition phase diagram. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3372-3381	13	136
238	Reactions and mass transport in high temperature co-electrolysis of steam/CO <sub>2</sub> mixtures for syngas production. <i>Journal of Power Sources</i> , <b>2015</b> , 280, 630-639	8.9	50
237	Synthesis of plasmonic Ag@SnO <sub>2</sub> core-shell nanoreactors for xylene detection. <i>RSC Advances</i> , <b>2015</b> , 5, 17653-17659	3.7	38
236	Selective NO <sub>2</sub> Sensors Using MoS <sub>2</sub> -MoO <sub>2</sub> Composite Yolk-shell Spheres. <i>Journal of Sensor Science and Technology</i> , <b>2015</b> , 24, 151-154	0.3	3
235	Trimethylamine Sensing Characteristics of Molybdenum doped ZnO Hollow Nanofibers Prepared by Electrospinning. <i>Journal of Sensor Science and Technology</i> , <b>2015</b> , 24, 419-422	0.3	3
234	Electrochemical properties of tungsten sulfide-carbon composite microspheres prepared by spray pyrolysis. <i>Scientific Reports</i> , <b>2014</b> , 4, 5755	4.9	39
233	Ultrasensitive and ultrasensitive detection of trimethylamine using MoO <sub>3</sub> nanoplates prepared by ultrasonic spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 195, 189-196	8.5	90
232	Effect of sintering atmosphere on phase stability, and electrical conductivity of proton-conducting Ba(Zr <sub>0.84</sub> Y <sub>0.15</sub> Cu <sub>0.01</sub> )O <sub>3</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 7100-7108	6.7	22
231	Ultrasensitive and ultrasensitive detection of H <sub>2</sub> S in highly humid atmosphere using CuO-loaded SnO <sub>2</sub> hollow spheres for real-time diagnosis of halitosis. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 194, 371-376	8.5	133
230	High performance chemiresistive H <sub>2</sub> S sensors using Ag-loaded SnO <sub>2</sub> yolk-shell nanostructures. <i>RSC Advances</i> , <b>2014</b> , 4, 16067-16074	3.7	54
229	Highly sensitive and selective gas sensors using p-type oxide semiconductors: Overview. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 192, 607-627	8.5	1309
228	One-pot synthesis of Pd-loaded SnO(2) yolk-shell nanostructures for ultrasensitive methyl benzene sensors. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 2737-41	4.8	81
227	Effect of esterification reaction of citric acid and ethylene glycol on the formation of multi-shelled cobalt oxide powders with superior electrochemical properties. <i>Nano Research</i> , <b>2014</b> , 7, 1738-1748	10	44



226	Rh-catalyzed WO <sub>3</sub> with anomalous humidity dependence of gas sensing characteristics. <i>RSC Advances</i> , <b>2014</b> , 4, 53130-53136	3.7	62
225	Enhanced ethanol sensing characteristics of In <sub>2</sub> O <sub>3</sub> -decorated NiO hollow nanostructures via modulation of hole accumulation layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 18197-204	9.5	129
224	Preparation of highly porous NiO/gadolinium-doped ceria nano-composite powders by one-pot glycine nitrate process for anode-supported tubular solid oxide fuel cellsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , <b>2014</b> , 2, 339-346	2.4	9
223	Comparison of the electrochemical properties of yolk-shell and dense structured CoFe <sub>2</sub> O <sub>4</sub> powders prepared by a spray pyrolysis process. <i>RSC Advances</i> , <b>2014</b> , 4, 40188	3.7	13
222	Large scale production of yolk-shell tricalcium phosphate powders, and their bioactivities as novel bone substitutes. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 16962-7	3.6	5
221	Impedance spectroscopic analysis on effects of partial oxidation of TiN bottom electrode and microstructure of amorphous and crystalline HfO <sub>2</sub> thin films on their bipolar resistive switching. <i>Nanoscale</i> , <b>2014</b> , 6, 6668-78	7.7	32
220	Selective, sensitive, and reversible detection of H <sub>2</sub> S using Mo-doped ZnO nanowire network sensors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6412-6418	13	81
219	Fabrication of anode-supported protonic ceramic fuel cell with Ba(Zr 0.85 Y 0.15 )O 3/Ba(Ce 0.9 Y 0.1 )O 3 dual-layer electrolyte. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 12812-12818	6.7	23
218	Honeycomb-like periodic porous LaFeO <sub>3</sub> thin film chemiresistors with enhanced gas-sensing performances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 16217-26	9.5	121
217	Selective trimethylamine sensors using Cr <sub>2</sub> O <sub>3</sub> -decorated SnO <sub>2</sub> nanowires. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 204, 231-238	8.5	74
216	Vertically ordered hematite nanotube array as an ultrasensitive and rapid response acetone sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 14779-84	9.5	63
215	Ni/YSZ-supported tubular solid oxide fuel cells with GDC interlayer between YSZ electrolyte and LSCF cathode. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 12894-12903	6.7	39
214	Phase and microstructural evolution of Sn particles embedded in amorphous carbon nanofibers and their anode properties in Li-ion batteries. <i>Journal of Electroceramics</i> , <b>2014</b> , 32, 261-268	1.5	11
213	CeO <sub>2</sub> quantum dot functionalized ZnO nanorods photoanode for DSSC applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 2872-2877	2.1	10
212	Fast responding exhaled-breath sensors using WO <sub>3</sub> hemitubes functionalized by graphene-based electronic sensitizers for diagnosis of diseases. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 9061-70	9.5	141
211	Design of highly sensitive and selective Au@NiO yolk-shell nanoreactors for gas sensor applications. <i>Nanoscale</i> , <b>2014</b> , 6, 8292-9	7.7	148
210	Electrochemical properties of yolk-shell structured layered-layered composite cathode powders prepared by spray pyrolysis. <i>Electrochimica Acta</i> , <b>2014</b> , 144, 288-294	6.7	8
209	Microstructural adjustment of NiBaCe <sub>0.9</sub> Y <sub>0.1</sub> O <sub>3</sub> ceramic membrane for improved hydrogen permeation. <i>Ceramics International</i> , <b>2014</b> , 40, 4117-4126	5.1	36

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207	Electrochemical properties of cobalt sulfide-carbon composite powders prepared by simple sulfidation process of spray-dried precursor powders. <i>Electrochimica Acta</i> , <b>2014</b> , 137, 336-343	6.7	22
206	Gas sensing characteristics of p-type Cr <sub>2</sub> O <sub>3</sub> and Co <sub>3</sub> O <sub>4</sub> nanofibers depending on inter-particle connectivity. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 263-271	8.5	65
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119	C <sub>2</sub> H <sub>5</sub> OH sensing characteristics of various Co <sub>3</sub> O <sub>4</sub> nanostructures prepared by solvothermal reaction. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 146, 183-189	8.5	152

118	Synthesis and gas sensing characteristics of highly crystalline ZnO@SnO <sub>2</sub> core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 148, 595-600	8.5	164
117	Design of selective gas sensors using electrospun Pd-doped SnO <sub>2</sub> hollow nanofibers. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 150, 191-199	8.5	200
116	Diffusion induced grain-boundary migration in SrO-doped CeO <sub>2</sub> electrolyte and its effect on electrical properties. <i>Solid State Ionics</i> , <b>2010</b> , 181, 1420-1424	3.3	7
115	Grain-Boundary Conduction in Gadolinia-Doped Ceria: The Effect of SrO Addition. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, B339	3.9	31
114	Highly resistive intergranular phases in solid electrolytes: an overview. <i>Monatshefte für Chemie</i> , <b>2009</b> , 140, 1081-1094	1.4	22
113	Enhanced H <sub>2</sub> S sensing characteristics of SnO <sub>2</sub> nanowires functionalized with CuO. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 142, 105-110	8.5	164
112	Solvent-free infiltration method for mesoporous SnO <sub>2</sub> using mesoporous silica templates. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 120, 441-446	5.3	78
111	Highly sensitive and ultra-fast responding gas sensors using self-assembled hierarchical SnO <sub>2</sub> spheres. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 136, 138-143	8.5	127
110	Enhanced CO sensing characteristics of hierarchical and hollow In <sub>2</sub> O <sub>3</sub> microspheres. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 138, 497-503	8.5	118
109	Gas sensors using hierarchical and hollow oxide nanostructures: Overview. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 140, 319-336	8.5	1217
108	Necked ZnO nanoparticle-based NO <sub>2</sub> sensors with high and fast response. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 140, 412-417	8.5	82
107	Glucose-mediated hydrothermal synthesis and gas sensing characteristics of WO <sub>3</sub> hollow microspheres. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 142, 236-242	8.5	94
106	Preparation of LSGM powders for low temperature sintering. <i>Solid State Ionics</i> , <b>2009</b> , 180, 788-791	3.3	20
105	Gas sensing characteristics of polycrystalline SnO <sub>2</sub> nanowires prepared by polyol method. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 136, 151-157	8.5	40
104	A facile fabrication of semiconductor nanowires gas sensor using PDMS patterning and solution deposition. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 136, 224-229	8.5	36
103	Improvement of Grain-Boundary Conduction in SiO <sub>2</sub> -Doped GDC by BaO Addition. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, B891	3.9	16
102	Firing characteristics of La <sub>0.8</sub> Sr <sub>0.2</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3</sub> electrolyte powders prepared by spray pyrolysis. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 487, 693-697	5.7	10
101	Design of Selective Gas Sensors Using Combinatorial Solution Deposition of Oxide Semiconductor Films <b>2009</b> , 295-312		

100	Microstructural evolution and dielectric properties of Cu-deficient and Cu-excess $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 284-291	5.1	40
99	Novel fabrication of an $\text{SnO}_2$ nanowire gas sensor with high sensitivity. <i>Nanotechnology</i> , <b>2008</b> , 19, 095508	3.4	301
98	Synthesis and Characterization of $\text{Fe-FeO}_x$ Core-Shell Nanowires. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 3950-3953	2	11
97	Gas sensing properties of defect-controlled $\text{ZnO}$ -nanowire gas sensor. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 263103	3.4	565
96	Microstructure and electrical properties of nano-sized $\text{Ce}_{1-x}\text{Gd}_x\text{O}_2$ ( $0 \leq x \leq 0.2$ ) particles prepared by spray pyrolysis. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 969-974	1	6
95	Growth mechanism of $\text{In}(\text{OH})_3$ nanocubes during hydrothermal reaction. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 3896-3900	1.6	5
94	Effect of $\text{CaO}$ concentration on enhancement of grain-boundary conduction in gadolinia-doped ceria. <i>Journal of Power Sources</i> , <b>2008</b> , 183, 518-523	8.9	57
93	Highly sensitive and fast responding $\text{CO}$ sensor using $\text{SnO}_2$ nanosheets. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 131, 556-564	8.5	140
92	Enhanced performance of $\text{SnO}_2$ nanowires ethanol sensor by functionalizing with $\text{La}_2\text{O}_3$ . <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 133, 228-234	8.5	117
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90	Grain-boundary plane orientation dependence of electrical barriers at $\Sigma$ boundaries in $\text{SrTiO}_3$ . <i>Acta Materialia</i> , <b>2008</b> , 56, 4993-4997	8.4	9
89	Preparation of multi-compositional gas sensing films by combinatorial solution deposition. <i>Ceramics International</i> , <b>2008</b> , 34, 827-831	5.1	22
88	Millicontact impedance spectroscopic analysis in stabilized zirconia and gadolinia-doped ceria. <i>Solid State Ionics</i> , <b>2008</b> , 179, 966-970	3.3	2
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