

# Kourosch Kalantar Kalantar-zadeh

## List of Publications by Citations

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532  
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41,597  
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#	Paper	IF	Citations
453	Electronics and optoelectronics of two-dimensional transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 699-712	28.7	10871
452	Nanostructured Tungsten Oxide [Properties, Synthesis, and Applications. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2175-2196	15.6	994
451	Physisorption-Based Charge Transfer in Two-Dimensional SnS <sub>2</sub> for Selective and Reversible NO <sub>2</sub> Gas Sensing. <i>ACS Nano</i> , <b>2015</b> , 9, 10313-23	16.7	479
450	Liquid metals: fundamentals and applications in chemistry. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 4073-4114	38.5	432
449	Graphene/Polyaniline Nanocomposite for Hydrogen Sensing. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 16168-16173	3.8	387
448	A liquid metal reaction environment for the room-temperature synthesis of atomically thin metal oxides. <i>Science</i> , <b>2017</b> , 358, 332-335	33.3	384
447	Two-Dimensional Molybdenum Trioxide and Dichalcogenides. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3952-3970	15.6	378
446	Graphene-like nano-sheets for surface acoustic wave gas sensor applications. <i>Chemical Physics Letters</i> , <b>2009</b> , 467, 344-347	2.5	321
445	Two dimensional and layered transition metal oxides. <i>Applied Materials Today</i> , <b>2016</b> , 5, 73-89	6.6	313
444	Molybdenum Oxides - From Fundamentals to Functionality. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701619	24	298
443	Enhanced charge carrier mobility in two-dimensional high dielectric molybdenum oxide. <i>Advanced Materials</i> , <b>2013</b> , 25, 109-14	24	296
442	Dye-sensitized solar cells based on WO <sub>3</sub> . <i>Langmuir</i> , <b>2010</b> , 26, 19148-52	4	293
441	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. <i>Nature</i> , <b>2018</b> , 562, 557-562	50.4	285
440	Dielectrophoretic platforms for bio-microfluidic systems. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 1800-14	11.8	266
439	Two-Dimensional Transition Metal Dichalcogenides in Biosystems. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5086-5099	15.6	256
438	Tunable plasmon resonances in two-dimensional molybdenum oxide nanoflakes. <i>Advanced Materials</i> , <b>2014</b> , 26, 3931-7	24	252
437	Nanostructured copper oxide semiconductors: a perspective on materials, synthesis methods and applications. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 5247-5270	7.1	247

436	Biosensors Based on Two-Dimensional MoS <sub>2</sub> . <i>ACS Sensors</i> , <b>2016</b> , 1, 5-16	9.2	246
435	Transition metal oxides I Thermoelectric properties. <i>Progress in Materials Science</i> , <b>2013</b> , 58, 1443-1489	42.2	242
434	Liquid metal enabled microfluidics. <i>Lab on A Chip</i> , <b>2017</b> , 17, 974-993	7.2	241
433	Electrochemical control of photoluminescence in two-dimensional MoS <sub>2</sub> (2) nanoflakes. <i>ACS Nano</i> , <b>2013</b> , 7, 10083-93	16.7	240
432	Liquid metal enabled pump. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 3304-9	11.5	230
431	Association between serum ferritin and measures of inflammation, nutrition and iron in haemodialysis patients. <i>Nephrology Dialysis Transplantation</i> , <b>2004</b> , 19, 141-9	4.3	226
430	Atomically thin layers of MoS <sub>2</sub> via a two step thermal evaporation-exfoliation method. <i>Nanoscale</i> , <b>2012</b> , 4, 461-6	7.7	221
429	Gas sensing properties of thermally evaporated lamellar MoO <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 145, 13-19	8.5	220
428	Ion-driven photoluminescence modulation of quasi-two-dimensional MoS <sub>2</sub> nanoflakes for applications in biological systems. <i>Nano Letters</i> , <b>2014</b> , 14, 857-63	11.5	215
427	Dielectrophoresis for manipulation of micro/nano particles in microfluidic systems. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 396, 401-20	4.4	213
426	Thin films and nanostructures of niobium pentoxide: fundamental properties, synthesis methods and applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15683-15703	13	207
425	Synthesis of nanometre-thick MoO <sub>3</sub> sheets. <i>Nanoscale</i> , <b>2010</b> , 2, 429-33	7.7	207
424	Carbon nanotube/polyaniline composite nanofibers: facile synthesis and chemosensors. <i>Nano Letters</i> , <b>2011</b> , 11, 954-9	11.5	192
423	Characterization of ZnO Nanobelt-Based Gas Sensor for $\text{H}_2$ , $\text{NO}_2$ , and Hydrocarbon Sensing. <i>IEEE Sensors Journal</i> , <b>2007</b> , 7, 919-924	4	192
422	Liquid Metal Marbles. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 144-152	15.6	191
421	Synthesis of Atomically Thin WO <sub>3</sub> Sheets from Hydrated Tungsten Trioxide. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 5660-5666	9.6	187
420	A layered surface acoustic wave gas sensor based on a polyaniline/In <sub>2</sub> O <sub>3</sub> nanofibre composite. <i>Nanotechnology</i> , <b>2006</b> , 17, 4488-4492	3.4	184
419	Two-Dimensional Transition Metal Oxide and Chalcogenide-Based Photocatalysts. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 23	19.5	182

418	Electrodeposited Band Phase MoO <sub>3</sub> Films and Investigation of Their Gasochromic Properties. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 1865-1870	3.5	173
417	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , <b>2017</b> , 8, 14482	17.4	172
416	A human pilot trial of ingestible electronic capsules capable of sensing different gases in the gut. <i>Nature Electronics</i> , <b>2018</b> , 1, 79-87	28.4	171
415	Emergence of Liquid Metals in Nanotechnology. <i>ACS Nano</i> , <b>2019</b> , 13, 7388-7395	16.7	169
414	Investigation of Two-Solvent Grinding-Assisted Liquid Phase Exfoliation of Layered MoS <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2015</b> , 27, 53-59	9.6	160
413	Electrochemically induced actuation of liquid metal marbles. <i>Nanoscale</i> , <b>2013</b> , 5, 5949-57	7.7	160
412	Electronic Tuning of 2D MoS <sub>2</sub> through Surface Functionalization. <i>Advanced Materials</i> , <b>2015</b> , 27, 6225-9	24	158
411	Two dimensional MoO <sub>3</sub> nanoflakes obtained using solvent-assisted grinding and sonication method: Application for H <sub>2</sub> gas sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 192, 196-204	8.5	157
410	Platinum/Graphene Nanosheet/SiC Contacts and Their Application for Hydrogen Gas Sensing. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13796-13801	3.8	154
409	Hydrogen sensing characteristics of WO <sub>3</sub> thin film conductometric sensors activated by Pt and Au catalysts. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 108, 154-158	8.5	153
408	Elevated temperature anodized Nb <sub>2</sub> O <sub>5</sub> : a photoanode material with exceptionally large photoconversion efficiencies. <i>ACS Nano</i> , <b>2012</b> , 6, 4045-53	16.7	150
407	In Situ Raman Spectroscopy of H <sub>2</sub> Gas Interaction with Layered MoO <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 10757-10763	3.8	150
406	Microfluidics and Raman microscopy: current applications and future challenges. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 5880-906	58.5	149
405	Plasmon resonances of highly doped two-dimensional MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2015</b> , 15, 883-90	11.5	145
404	Liquid Metal Actuator for Inducing Chaotic Advection. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5851-5858	55.6	144
403	Diagnosis of iron deficiency anemia in renal failure patients during the post-erythropoietin era. <i>American Journal of Kidney Diseases</i> , <b>1995</b> , 26, 292-9	7.4	144
402	Electrospun Granular Hollow SnO <sub>2</sub> Nanofibers Hydrogen Gas Sensors Operating at Low Temperatures. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3129-3139	3.8	141
401	Synthesis of Nanostructured Tungsten Oxide Thin Films: A Simple, Controllable, Inexpensive, Aqueous Sol-Gel Method. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 430-439	3.5	141

400	Liquid Metal/Metal Oxide Frameworks. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3799-3807	15.6	140
399	The anodized crystalline WO <sub>3</sub> nanoporous network with enhanced electrochromic properties. <i>Nanoscale</i> , <b>2012</b> , 4, 5980-8	7.7	140
398	High-Performance Field Effect Transistors Using Electronic Inks of 2D Molybdenum Oxide Nanoflakes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 91-100	15.6	140
397	Field effect biosensing platform based on 2D HfMoO(3). <i>ACS Nano</i> , <b>2013</b> , 7, 9753-60	16.7	132
396	Absorption spectral response of nanotextured WO <sub>3</sub> thin films with Pt catalyst towards H <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 137, 115-120	8.5	131
395	Total iron-binding capacity-estimated transferrin correlates with the nutritional subjective global assessment in hemodialysis patients. <i>American Journal of Kidney Diseases</i> , <b>1998</b> , 31, 263-72	7.4	129
394	The fascinating but deceptive ferritin: to measure it or not to measure it in chronic kidney disease?. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , <b>2006</b> , 1 Suppl 1, S9-18	6.9	126
393	Characterization of metal contacts for two-dimensional MoS <sub>2</sub> nanoflakes. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 232105	3.4	120
392	Association of anemia with outcomes in men with moderate and severe chronic kidney disease. <i>Kidney International</i> , <b>2006</b> , 69, 560-4	9.9	120
391	Ingestible Sensors. <i>ACS Sensors</i> , <b>2017</b> , 2, 468-483	9.2	119
390	Highly active two dimensional HfMoO <sub>3</sub> for the electrocatalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24223-24231	13	118
389	Doped and dedoped polyaniline nanofiber based conductometric hydrogen gas sensors. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 139, 53-57	3.9	118
388	p- and n-type Fe-doped SnO <sub>2</sub> gas sensors fabricated by the mechanochemical processing technique. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 93, 562-565	8.5	116
387	Ionic imbalance induced self-propulsion of liquid metals. <i>Nature Communications</i> , <b>2016</b> , 7, 12402	17.4	116
386	Liquid metal/metal oxide frameworks with incorporated Ga <sub>2</sub> O <sub>3</sub> for photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 1943-8	9.5	115
385	Investigation of the oxygen gas sensing performance of Ga <sub>2</sub> O <sub>3</sub> thin films with different dopants. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 93, 431-434	8.5	114
384	The effect of crosslinking temperature on the permeability of PDMS membranes: Evidence of extraordinary CO <sub>2</sub> and CH <sub>4</sub> gas permeation. <i>Separation and Purification Technology</i> , <b>2014</b> , 122, 96-104	8.3	104
383	High-temperature anodized WO <sub>3</sub> nanoplatelet films for photosensitive devices. <i>Langmuir</i> , <b>2009</b> , 25, 9545-51	10.3	103

382	Photochemically induced motion of liquid metal marbles. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 174104	3.4	102
381	Nanoporous Nb <sub>2</sub> O <sub>5</sub> hydrogen gas sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 176, 149-156	8.5	102
380	Intelligent control of surface hydrophobicity. <i>ChemPhysChem</i> , <b>2007</b> , 8, 2036-50	3.2	102
379	Polypyrrole nanofiber surface acoustic wave gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 134, 826-831	8.5	101
378	Room temperature CO reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. <i>Nature Communications</i> , <b>2019</b> , 10, 865	17.4	100
377	Nanostructured copper oxides as ethanol vapour sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 185, 620-627	8.5	100
376	2D WS <sub>2</sub> /carbon dot hybrids with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13563-13571	13	99
375	Sol-gel prepared MoO <sub>3</sub> /WO <sub>3</sub> thin-films for O <sub>2</sub> gas sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 77, 478-483	8.5	97
374	Exfoliation Solvent Dependent Plasmon Resonances in Two-Dimensional Sub-Stoichiometric Molybdenum Oxide Nanoflakes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 3482-93	9.5	91
373	Considering the Effects of Microbiome and Diet on SARS-CoV-2 Infection: Nanotechnology Roles. <i>ACS Nano</i> , <b>2020</b> , 14, 5179-5182	16.7	88
372	Liquid-Metal Microdroplets Formed Dynamically with Electrical Control of Size and Rate. <i>Advanced Materials</i> , <b>2016</b> , 28, 604-9	24	87
371	Decoration of TiO <sub>2</sub> nanotubes with metal nanoparticles using polyoxometalate as a UV-switchable reducing agent for enhanced visible and solar light photocatalysis. <i>Langmuir</i> , <b>2012</b> , 28, 14470-5	4	86
370	Nanorod based Schottky contact gas sensors in reversed bias condition. <i>Nanotechnology</i> , <b>2010</b> , 21, 26550-4	9.4	85
369	Degenerately Hydrogen Doped Molybdenum Oxide Nanodisks for Ultrasensitive Plasmonic Biosensing. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706006	15.6	84
368	Antibacterial Liquid Metals: Biofilm Treatment Magnetic Activation. <i>ACS Nano</i> , <b>2020</b> , 14, 802-817	16.7	83
367	Aqueous synthesis of interconnected ZnO nanowires using spray pyrolysis deposited seed layers. <i>Materials Letters</i> , <b>2010</b> , 64, 291-294	3.3	82
366	Self-Limiting Galvanic Growth of MnO <sub>2</sub> Monolayers on a Liquid Metal Applied to Photocatalysis. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901649	15.6	81
365	Wafer-Scale Synthesis of Semiconducting SnO Monolayers from Interfacial Oxide Layers of Metallic Liquid Tin. <i>ACS Nano</i> , <b>2017</b> , 11, 10974-10983	16.7	80

364	Hydrogen gas sensor based on highly ordered polyaniline nanofibers. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 137, 529-532	8.5	80
363	Sonication-Assisted Synthesis of Gallium Oxide Suspensions Featuring Trap State Absorption: Test of Photochemistry. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702295	15.6	78
362	Gold nanoparticle-decorated keggin ions/TiO <sub>2</sub> photococatalyst for improved solar light photocatalysis. <i>Langmuir</i> , <b>2011</b> , 27, 6661-7	4	78
361	Evidence for high-efficiency exciton dissociation at polymer/single-walled carbon nanotube interfaces in planar nano-heterojunction photovoltaics. <i>ACS Nano</i> , <b>2010</b> , 4, 6251-9	16.7	78
360	Layered SAW gas sensor with single-walled carbon nanotube-based nanocomposite coating. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 127, 168-178	8.5	77
359	In situ nanoindentation: Probing nanoscale multifunctionality. <i>Progress in Materials Science</i> , <b>2013</b> , 58, 1-29	42.2	76
358	Anodization of Ti thin film deposited on ITO. <i>Langmuir</i> , <b>2009</b> , 25, 509-14	4	76
357	A ZnO nanorod based layered ZnO/64%YX LiNbO <sub>3</sub> SAW hydrogen gas sensor. <i>Thin Solid Films</i> , <b>2007</b> , 515, 8705-8708	2.2	76
356	Atomically thin two-dimensional metal oxide nanosheets and their heterostructures for energy storage. <i>Energy Storage Materials</i> , <b>2019</b> , 16, 455-480	19.4	76
355	CNT/PDMS composite membranes for H <sub>2</sub> and CH <sub>4</sub> gas separation. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 10494-10501	6.7	75
354	Flexible two-dimensional indium tin oxide fabricated using a liquid metal printing technique. <i>Nature Electronics</i> , <b>2020</b> , 3, 51-58	28.4	73
353	High Performance Electrochromic Devices Based on Anodized Nanoporous Nb <sub>2</sub> O <sub>5</sub> . <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 476-481	3.8	73
352	Electrowetting of superhydrophobic ZnO nanorods. <i>Langmuir</i> , <b>2008</b> , 24, 5091-8	4	71
351	A polyaniline/WO <sub>3</sub> nanofiber composite-based ZnO/64%YX LiNbO <sub>3</sub> SAW hydrogen gas sensor. <i>Synthetic Metals</i> , <b>2008</b> , 158, 29-32	3.6	71
350	A vein-like nanoporous network of Nb <sub>2</sub> O <sub>5</sub> with a higher lithium intercalation discharge cut-off voltage. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11019	13	70
349	Printing two-dimensional gallium phosphate out of liquid metal. <i>Nature Communications</i> , <b>2018</b> , 9, 3618	17.4	70
348	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. <i>Nature Communications</i> , <b>2020</b> , 11, 3449	17.4	69
347	ZnO based thermopower wave sources. <i>Chemical Communications</i> , <b>2012</b> , 48, 7462-4	5.8	69



- 346 Reversed bias Pt/nanostructured ZnO Schottky diode with enhanced electric field for hydrogen sensing. *Sensors and Actuators B: Chemical*, **2010**, 146, 507-512 8.5 69
- 345 Polyaniline Nanofiber Based Surface Acoustic Wave Gas Sensors Effect of Nanofiber Diameter on  $H_2$  Response. *IEEE Sensors Journal*, **2007**, 7, 213-218 4 68
- 344 A Gallium-Based Magnetocaloric Liquid Metal Ferrofluid. *Nano Letters*, **2017**, 17, 7831-7838 11.5 67
- 343 Sb<sub>2</sub>Te<sub>3</sub> and Bi<sub>2</sub>Te<sub>3</sub> based thermopower wave sources. *Energy and Environmental Science*, **2011**, 4, 3558 35.4 66
- 342 Substoichiometric two-dimensional molybdenum oxide flakes: a plasmonic gas sensing platform. *Nanoscale*, **2014**, 6, 12780-91 7.7 65
- 341 Human intestinal gas measurement systems: in vitro fermentation and gas capsules. *Trends in Biotechnology*, **2015**, 33, 208-13 15.1 65
- 340 Enhancing the current density of electrodeposited ZnO/Cu<sub>2</sub>O solar cells by engineering their heterointerfaces. *Journal of Materials Chemistry*, **2012**, 22, 21767 65
- 339 Optofluidics incorporating actively controlled micro- and nano-particles. *Biomicrofluidics*, **2012**, 6, 315013.2 65
- 338 Nanoporous WO<sub>3</sub> from anodized RF sputtered tungsten thin films. *Electrochemistry Communications*, **2009**, 11, 768-771 5.1 65
- 337 Acoustically-Driven Trion and Exciton Modulation in Piezoelectric Two-Dimensional MoS<sub>2</sub>. *Nano Letters*, **2016**, 16, 849-55 11.5 64
- 336 Anodized nanoporous WO<sub>3</sub> Schottky contact structures for hydrogen and ethanol sensing. *Journal of Materials Chemistry A*, **2015**, 3, 7994-8001 13 63
- 335 In situ Raman spectroscopy of H<sub>2</sub> interaction with WO<sub>3</sub> films. *Physical Chemistry Chemical Physics*, **2011**, 13, 7330-9 3.6 63
- 334 Transition from n- to p-Type of Spray Pyrolysis Deposited Cu Doped ZnO Thin Films for NO<sub>2</sub> Sensing. *Sensor Letters*, **2009**, 7, 621-628 0.9 63
- 333 PDMS nanocomposites for heat transfer enhancement in microfluidic platforms. *Lab on A Chip*, **2014**, 14, 3419-26 7.2 62
- 332 Enhanced Gas Permeation through Graphene Nanocomposites. *Journal of Physical Chemistry C*, **2015**, 119, 13700-13712 3.8 62
- 331 Wafer-Sized Ultrathin Gallium and Indium Nitride Nanosheets through the Ammonolysis of Liquid Metal Derived Oxides. *Journal of the American Chemical Society*, **2019**, 141, 104-108 16.4 62
- 330 Measuring Methane Production from Ruminants. *Trends in Biotechnology*, **2016**, 34, 26-35 15.1 61
- 329 Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO. *Nanoscale*, **2017**, 9, 19162-19175 7.7 61



328	Amorphous MoS <sub>x</sub> -Coated TiO <sub>2</sub> Nanotube Arrays for Enhanced Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12589-12597	3.8	61
327	Porous Electrochar/MnPE Layered Hybrid for Synergistic Adsorption and Catalytic Biodegradation of Toxic Azo Dyes from Industrial Wastewater. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 2161-2170	10.3	60
326	MnO <sub>2</sub> -Based Thermopower Wave Sources with Exceptionally Large Output Voltages. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9137-9142	3.8	60
325	A novel Love-mode device based on a ZnO/ST-cut quartz crystal structure for sensing applications. <i>Sensors and Actuators A: Physical</i> , <b>2002</b> , 100, 135-143	3.9	59
324	Transparent functional oxide stretchable electronics: micro-tectonics enabled high strain electrodes. <i>NPG Asia Materials</i> , <b>2013</b> , 5, e62-e62	10.3	58
323	Formation of nanoporous titanium oxide films on silicon substrates using an anodization process. <i>Nanotechnology</i> , <b>2006</b> , 17, 808-814	3.4	58
322	Optical gas sensing properties of nanoporous Nb <sub>2</sub> O <sub>5</sub> films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 4751-8	9.5	56
321	Active control of silver nanoparticles spacing using dielectrophoresis for surface-enhanced Raman scattering. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4029-35	7.8	56
320	Dielectrophoretic manipulation and separation of microparticles using curved microelectrodes. <i>Electrophoresis</i> , <b>2009</b> , 30, 3707-17	3.6	56
319	Electrochromic properties of TiO <sub>2</sub> nanotubes coated with electrodeposited MoO <sub>3</sub> . <i>Nanoscale</i> , <b>2013</b> , 5, 10353-9	7.7	54
318	Conductometric Hydrogen Gas Sensor Based on Polypyrrole Nanofibers. <i>IEEE Sensors Journal</i> , <b>2008</b> , 8, 365-370	4	54
317	Intestinal gases: influence on gut disorders and the role of dietary manipulations. <i>Nature Reviews Gastroenterology and Hepatology</i> , <b>2019</b> , 16, 733-747	24.2	53
316	Oscillatory Thermopower Waves Based on Bi <sub>2</sub> Te <sub>3</sub> Films. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2072-2079	10.7	53
315	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800420	6.8	53
314	Liquid Metal Droplet and Graphene Co-Fillers for Electrically Conductive Flexible Composites. <i>Small</i> , <b>2020</b> , 16, e1903753	11	53
313	Ordered intracrystalline pores in planar molybdenum oxide for enhanced alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 257-268	13	52
312	Uniformly Dispersed PtNi Nanoparticles on Nitrogen-Doped Carbon Nanotubes for Hydrogen Sensing. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 238-242	3.8	52
311	Dynamic analysis of drug-induced cytotoxicity using chip-based dielectrophoretic cell immobilization technology. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 2133-44	7.8	52

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302	Highly sensitive layered ZnO/LiNbO <sub>3</sub> SAW device with InOx selective layer for NO <sub>2</sub> and H <sub>2</sub> gas sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 207-212	8.5	50
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24	A Room Temperature Polyaniline/SnO2 Nanofiber Composite Based Layered ZnO/64°YX LiNbO3 SAW Hydrogen Gas Sensor <b>2006</b> ,		1
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16	Palladium nanowire hydrogen sensor based on a SAW transducer		1
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