Kourosh Kalantar Kalantar-zadeh

List of Publications by Year in Descending Order

453 papers	36,093 citations	84 h-index	180 g-index
532 ext. papers	41,597 ext. citations	9.7 avg, IF	7.57 L-index

#	Paper	IF	Citations
453	Applications of liquid metals in nanotechnology.. *Nanoscale Horizons*, **2022**,	10.8	7
452	Noncontact rotation, levitation, and acceleration of flowing liquid metal wires.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	2
451	Emerging Role of Liquid Metals in Sensing.. *ACS Sensors*, **2022**,	9.2	9
450	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals **2022**, 1, 158-169		4
449	Electrospun liquid metal/PVDF-HFP nanofiber membranes with exceptional triboelectric performance. *Nano Energy*, **2022**, 92, 106713	17.1	6
448	High-Q Phonon-polaritons in Spatially Confined Freestanding □MoO3. *ACS Photonics*, **2022**, 9, 905-913	6.3	1
447	Induction heating for the removal of liquid metal-based implant mimics: A proof-of-concept. *Applied Materials Today*, **2022**, 27, 101459	6.6	0
446	High-□perovskite membranes as insulators for two-dimensional transistors.. *Nature*, **2022**, 605, 262-267	50.4	16
445	Liquid state of post-transition metals for interfacial synthesis of two-dimensional materials. *Applied Physics Reviews*, **2022**, 9, 021306	17.3	1
444	Exploring Interfacial Graphene Oxide Reduction by Liquid Metals: Application in Selective Biosensing. *ACS Nano*, **2021**,	16.7	14
443	Association between severity of COVID-19 symptoms and habitual food intake in adult outpatients.. *BMJ Nutrition, Prevention and Health*, **2021**, 4, 469-478	6.7	1
442	Nanoencapsulation for Probiotic Delivery. *ACS Nano*, **2021**,	16.7	10
441	Liquid metal enabled continuous flow reactor: A proof-of-concept. *Matter*, **2021**, 4, 4022-4041	12.7	8
440	Liquid-Metal-Enabled Mechanical-Energy-Induced CO Conversion. *Advanced Materials*, **2021**, e2105789	24	7
439	High- 2D SbO Made Using a Substrate-Independent and Low-Temperature Liquid-Metal-Based Process. *ACS Nano*, **2021**, 15, 16067-16075	16.7	8
438	Polydopamine Shell as a Ga Reservoir for Triggering Gallium-Indium Phase Separation in Eutectic Gallium-Indium Nanoalloys. *ACS Nano*, **2021**, 15, 16839-16850	16.7	8
437	Liquid-Metal-Assisted Deposition and Patterning of Molybdenum Dioxide at Low Temperature. *ACS Applied Materials & Interfaces*, **2021**,	9.5	6

436	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO2 selective sensing. *Applied Materials Today*, **2021**, 22, 100954	6.6	10
435	High-mobility p-type semiconducting two-dimensional □TeO2. *Nature Electronics*, **2021**, 4, 277-283	28.4	23
434	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. *ACS Nano*, **2021**, 15, 9134-9142	16.7	8
433	Maximum piezoelectricity in a few unit-cell thick planar ZnO □A liquid metal-based synthesis approach. *Materials Today*, **2021**, 44, 69-77	21.8	16
432	Cytokines: From Clinical Significance to Quantification. *Advanced Science*, **2021**, 8, e2004433	13.6	29
431	Self-Deposition of 2D Molybdenum Sulfides on Liquid Metals. *Advanced Functional Materials*, **2021**, 31, 2005866	15.6	22
430	Carbonization of low thermal stability polymers at the interface of liquid metals. *Carbon*, **2021**, 171, 938-945	10.4	2
429	Polyphenol-Induced Adhesive Liquid Metal Inks for Substrate-Independent Direct Pen Writing. *Advanced Functional Materials*, **2021**, 31, 2007336	15.6	37
428	Gallium-Based Liquid Metal Particles for Therapeutics. *Trends in Biotechnology*, **2021**, 39, 624-640	15.1	26
427	Unique surface patterns emerging during solidification of liquid metal alloys. *Nature Nanotechnology*, **2021**, 16, 431-439	28.7	46
426	Low dimensional materials for glucose sensing. *Nanoscale*, **2021**, 13, 11017-11040	7.7	6
425	Recent developments of hybrid piezo□triboelectric nanogenerators for flexible sensors and energy harvesters. *Nanoscale Advances*, **2021**, 3, 5465-5486	5.1	6
424	Meandering Pattern 433 MHz Antennas for Ingestible Capsules. *IEEE Access*, **2021**, 9, 91874-91882	3.5	5
423	Liquid Metal-Triggered Assembly of Phenolic Nanocoatings with Antioxidant and Antibacterial Properties. *ACS Applied Nano Materials*, **2021**, 4, 2987-2998	5.6	5
422	Low Melting Temperature Liquid Metals and Their Impacts on Physical Chemistry. *Accounts of Materials Research*, **2021**, 2, 577-580	7.5	13
421	Gallium Liquid Metal: The Devil□s Elixir. *Annual Review of Materials Research*, **2021**, 51, 381-408	12.8	37
420	Complementary bulk and surface passivations for highly efficient perovskite solar cells by gas quenching. *Cell Reports Physical Science*, **2021**, 2, 100511	6.1	10
419	Nanotip Formation from Liquid Metals for Soft Electronic Junctions. *ACS Applied Materials & Interfaces*, **2021**, 13, 43247-43257	9.5	6

418	Doping Process of 2D Materials Based on the Selective Migration of Dopants to the Interface of Liquid Metals. *Advanced Materials*, **2021**, 33, e2104793	24	14
417	Post-transition metal/polymer composites for the separation and sensing of alkali metal ions. *Journal of Materials Chemistry A*, **2021**, 9, 19854-19864	13	3
416	Bluetooth Signal Attenuation Analysis in Human Body Tissue Analogues. *IEEE Access*, **2021**, 9, 85144-85150	3.9	6
415	Microbiome modulation as a novel therapeutic approach in chronic kidney disease. *Current Opinion in Nephrology and Hypertension*, **2021**, 30, 75-84	3.5	7
414	Interface chemistry of two-dimensional heterostructures - fundamentals to applications. *Chemical Society Reviews*, **2021**, 50, 4684-4729	58.5	51
413	Supplementing dietary fibres with a low FODMAP diet in irritable bowel syndrome: a randomized controlled crossover trial.. *Clinical Gastroenterology and Hepatology*, **2021**,	6.9	3
412	Gallium nitride formation in liquid metal sonication. *Journal of Materials Chemistry C*, **2020**, 8, 16593-16602	7.1	13
411	Nucleation and Growth of Polyaniline Nanofibers onto Liquid Metal Nanoparticles. *Chemistry of Materials*, **2020**, 32, 4808-4819	9.6	30
410	Bi-Sn Catalytic Foam Governed by Nanometallurgy of Liquid Metals. *Nano Letters*, **2020**, 20, 4403-4409	11.5	27
409	Photolithography□enabled direct patterning of liquid metals. *Journal of Materials Chemistry C*, **2020**, 8, 7805-7811	7.1	18
408	Polymeric composite membranes for gas separation: State-of-the-art 2D fillers **2020**, 293-306		
407	Exploring Electrochemical Extrusion of Wires from Liquid Metals. *ACS Applied Materials & Interfaces*, **2020**, 12, 31010-31020	9.5	20
406	Dynamic Temperature Control System for the Optimized Production of Liquid Metal Nanoparticles. *ACS Applied Nano Materials*, **2020**, 3, 6905-6914	5.6	15
405	Liquid-Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. *Advanced Materials*, **2020**, 32, e2001997	24	44
404	Uncovering Atomic-Scale Stability and Reactivity in Engineered Zinc Oxide Electrocatalysts for Controllable Syngas Production. *Advanced Energy Materials*, **2020**, 10, 2001381	21.8	19
403	Effective Separation of CO Using Metal-Incorporated rGO Membranes. *Advanced Materials*, **2020**, 32, e1907580	24	34
402	Liquid Metal-Based Route for Synthesizing and Tuning Gas-Sensing Elements. *ACS Sensors*, **2020**, 5, 1177-1189	9.1	23
401	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. *Nature Communications*, **2020**, 11, 3449	17.4	69

400	Peculiar piezoelectricity of atomically thin planar structures. *Nanoscale*, **2020**, 12, 2875-2901	7.7	25
399	Flexible two-dimensional indium tin oxide fabricated using a liquid metal printing technique. *Nature Electronics*, **2020**, 3, 51-58	28.4	73
398	Considering the Effects of Microbiome and Diet on SARS-CoV-2 Infection: Nanotechnology Roles. *ACS Nano*, **2020**, 14, 5179-5182	16.7	88
397	Telecommunications and Data Processing in Flexible Electronic Systems. *Advanced Materials Technologies*, **2020**, 5, 1900733	6.8	18
396	Antibacterial Liquid Metals: Biofilm Treatment Magnetic Activation. *ACS Nano*, **2020**, 14, 802-817	16.7	83
395	Liquid metal-supported synthesis of cupric oxide. *Journal of Materials Chemistry C*, **2020**, 8, 1656-1665	7.1	18
394	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. *ACS Nano*, **2020**, 14, 1123-1132	16.7	11
393	Liquid metals and their hybrids as stimulus□esponsive smart materials. *Materials Today*, **2020**, 34, 92-114	21.8	37
392	Catalytic Metal Foam by Chemical Melting and Sintering of Liquid Metal Nanoparticles. *Advanced Functional Materials*, **2020**, 30, 1907879	15.6	33
391	Broad-spectrum treatment of bacterial biofilms using magneto-responsive liquid metal particles. *Journal of Materials Chemistry B*, **2020**, 8, 10776-10787	7.3	11
390	Two-Step Synthesis of Large-Area 2D Bi2S3 Nanosheets Featuring High In-Plane Anisotropy. *Advanced Materials Interfaces*, **2020**, 7, 2001131	4.6	12
389	Two-Dimensional Material-Based Biosensors for Virus Detection. *ACS Sensors*, **2020**, 5, 3739-3769	9.2	36
388	Broadband Photodetectors: Liquid-Metal Synthesized Ultrathin SnS Layers for High-Performance Broadband Photodetectors (Adv. Mater. 45/2020). *Advanced Materials*, **2020**, 32, 2070338	24	2
387	Liquid Metals in Catalysis for Energy Applications. *Joule*, **2020**, 4, 2290-2321	27.8	32
386	Illumination-Induced Phase Segregation and Suppressed Solubility Limit in Br-Rich Mixed-Halide Inorganic Perovskites. *ACS Applied Materials & Interfaces*, **2020**, 12, 38376-38385	9.5	15
385	Response to Comment on Considering the Effects of Microbiome and Diet on SARS-CoV-2 Infection. *ACS Nano*, **2020**, 14, 12266	16.7	1
384	Liquid-Metal Synthesized Ultrathin SnS Layers for High-Performance Broadband Photodetectors. *Advanced Materials*, **2020**, 32, e2004247	24	34
383	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals **2020**, 2, 1368-1374		22

382	Anisotropic Materials Based on Liquid Metals. *Matter*, **2020**, 3, 613-614	12.7	1
381	Ultra-thin lead oxide piezoelectric layers for reduced environmental contamination using a liquid metal-based process. *Journal of Materials Chemistry A*, **2020**, 8, 19434-19443	13	14
380	Pulsing Liquid Alloys for Nanomaterials Synthesis. *ACS Nano*, **2020**, 14, 14070-14079	16.7	31
379	Liquid Metal Droplet and Graphene Co-Fillers for Electrically Conductive Flexible Composites. *Small* , **2020**, 16, e1903753	11	53
378	Magnetic and Conductive Liquid Metal Gels. *ACS Applied Materials & Interfaces*, **2020**, 12, 20119-20128	9.5	40
377	Liquid metal dispersion by self-assembly of natural phenolics. *Chemical Communications*, **2019**, 55, 11291-11294	5.8	18
376	Intestinal gases: influence on gut disorders and the role of dietary manipulations. *Nature Reviews Gastroenterology and Hepatology*, **2019**, 16, 733-747	24.2	53
375	Porous Eleocharis@MnPE Layered Hybrid for Synergistic Adsorption and Catalytic Biodegradation of Toxic Azo Dyes from Industrial Wastewater. *Environmental Science & Technology*, **2019**, 53, 2161-2170	10.3	60
374	Self-tunable ultrathin carbon nanocups as the electrode material of sodium-ion batteries with unprecedented capacity and stability. *Chemical Engineering Journal*, **2019**, 364, 578-588	14.7	30
373	Ordered intracrystalline pores in planar molybdenum oxide for enhanced alkaline hydrogen evolution. *Journal of Materials Chemistry A*, **2019**, 7, 257-268	13	52
372	Emergence of Liquid Metals in Nanotechnology. *ACS Nano*, **2019**, 13, 7388-7395	16.7	169
371	Electronic Skins Based on Liquid Metals. *Proceedings of the IEEE*, **2019**, 107, 2168-2184	14.3	45
370	Liquid metals for tuning gas sensitive layers. *Journal of Materials Chemistry C*, **2019**, 7, 6375-6382	7.1	31
369	High Surface Area to Volume Ratio 3D Nanoporous Nb2O5 for Enhanced Humidity Sensing. *Journal of Electronic Materials*, **2019**, 48, 3805-3815	1.9	6
368	Lithium Intercalated Molybdenum Disulfide-Coated Cotton Thread as a Viable Nerve Tissue Scaffold Candidate. *ACS Applied Nano Materials*, **2019**, 2, 2044-2053	5.6	3
367	Investigation of the surface of Ga?Sn?Zn eutectic alloy by the characterisation of oxide nanofilms obtained by the touch-printing method. *Nanomaterials*, **2019**, 9,	5.4	3
366	Room temperature CO reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. *Nature Communications*, **2019**, 10, 865	17.4	100
365	Liquid metal core–shell structures functionalised via mechanical agitation: the example of Field's metal. *Journal of Materials Chemistry A*, **2019**, 7, 17876-17887	13	26

364	Liquid metal synthesis of two-dimensional aluminium oxide platelets to reinforce epoxy composites. *Composites Science and Technology*, **2019**, 181, 107708	8.6	11
363	Atomically Thin Ga2S3 from Skin of Liquid Metals for Electrical, Optical, and Sensing Applications. *ACS Applied Nano Materials*, **2019**, 2, 4665-4672	5.6	37
362	Self-Limiting Galvanic Growth of MnO2 Monolayers on a Liquid Metal Applied to Photocatalysis. *Advanced Functional Materials*, **2019**, 29, 1901649	15.6	81
361	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. *Nature Communications*, **2019**, 10, 4645	17.4	39
360	Coordination Polymer to Atomically Thin, Holey, Metal-Oxide Nanosheets for Tuning Band Alignment. *Advanced Materials*, **2019**, 31, e1905288	24	20
359	2D Materials: Coordination Polymer to Atomically Thin, Holey, Metal-Oxide Nanosheets for Tuning Band Alignment (Adv. Mater. 52/2019). *Advanced Materials*, **2019**, 31, 1970370	24	2
358	In Vivo and In Vitro Monitoring of Amyloid Aggregation via BSA@FGQDs Multimodal Probe. *ACS Sensors*, **2019**, 4, 200-210	9.2	33
357	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
356	Band structure and giant Stark effect in two-dimensional transition-metal dichalcogenides. *Electronic Structure*, **2019**, 1, 015005	2.6	4
355	Atomically thin two-dimensional metal oxide nanosheets and their heterostructures for energy storage. *Energy Storage Materials*, **2019**, 16, 455-480	19.4	76
354	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. *Advanced Materials Technologies*, **2019**, 4, 1800420	6.8	53
353	Liquid metals: fundamentals and applications in chemistry. *Chemical Society Reviews*, **2018**, 47, 4073-4111	38.5	432
352	Degenerately Hydrogen Doped Molybdenum Oxide Nanodisks for Ultrasensitive Plasmonic Biosensing. *Advanced Functional Materials*, **2018**, 28, 1706006	15.6	84
351	Evolution of 2D tin oxides on the surface of molten tin. *Chemical Communications*, **2018**, 54, 2102-2105	5.8	17
350	A human pilot trial of ingestible electronic capsules capable of sensing different gases in the gut. *Nature Electronics*, **2018**, 1, 79-87	28.4	171
349	Modulation of colonic hydrogen sulfide production by diet and mesalazine utilizing a novel gas-profiling technology. *Gut Microbes*, **2018**, 9, 510-522	8.8	18
348	A novel mathematical model for the dynamic assessment of gas composition and production in closed or vented fermentation systems. *Sensors and Actuators B: Chemical*, **2018**, 254, 354-362	8.5	4
347	The safety and sensitivity of a telemetric capsule to monitor gastrointestinal hydrogen production in vivo in healthy subjects: a pilot trial comparison to concurrent breath analysis. *Alimentary Pharmacology and Therapeutics*, **2018**, 48, 646-654	6.1	30

346	BiO monolayers from elemental liquid bismuth. *Nanoscale*, **2018**, 10, 15615-15623	7.7	36
345	Soft micro-sensotransmitters emerging. *Nature Nanotechnology*, **2018**, 13, 770-771	28.7	1
344	Exploring electric field assisted van der Waals weakening of stratified crystals. *Applied Materials Today*, **2018**, 12, 359-365	6.6	2
343	Liquid Phase Acoustic Wave Exfoliation of Layered MoS2: Critical Impact of Electric Field in Efficiency. *Chemistry of Materials*, **2018**, 30, 5593-5601	9.6	27
342	Two dimensional PbMoO4: A photocatalytic material derived from a naturally non-layered crystal. *Nano Energy*, **2018**, 49, 237-246	17.1	37
341	Ultrafast Acoustofluidic Exfoliation of Stratified Crystals. *Advanced Materials*, **2018**, 30, e1704756	24	26
340	Laser exposure induced alteration of WS 2 monolayers in the presence of ambient moisture. *2D Materials*, **2018**, 5, 015013	5.9	26
339	Two-Dimensional Transition Metal Oxide and Chalcogenide-Based Photocatalysts. *Nano-Micro Letters*, **2018**, 10, 23	19.5	182
338	Exfoliation Behavior of van der Waals Strings: Case Study of BiS. *ACS Applied Materials & Interfaces*, **2018**, 10, 42603-42611	9.5	23
337	Piezotronic materials and large-scale piezotronics array devices. *MRS Bulletin*, **2018**, 43, 936-940	3.2	24
336	Green Synthesis of Low-Dimensional Aluminum Oxide Hydroxide and Oxide Using Liquid Metal Reaction Media: Ultrahigh Flux Membranes. *Advanced Functional Materials*, **2018**, 28, 1804057	15.6	51
335	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. *Nature*, **2018**, 562, 557-562	50.4	285
334	Printing two-dimensional gallium phosphate out of liquid metal. *Nature Communications*, **2018**, 9, 3618	17.4	70
333	An in-vitro upper gut simulator for assessing continuous gas production: A proof-of-concept using milk digestion. *Journal of Functional Foods*, **2018**, 47, 200-210	5.1	2
332	Amorphous MoSx-Coated TiO2 Nanotube Arrays for Enhanced Electrocatalytic Hydrogen Evolution Reaction. *Journal of Physical Chemistry C*, **2018**, 122, 12589-12597	3.8	61
331	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. *Nature Communications*, **2017**, 8, 14482	17.4	172
330	Ingestible Sensors. *ACS Sensors*, **2017**, 2, 468-483	9.2	119
329	Liquid metal enabled microfluidics. *Lab on A Chip*, **2017**, 17, 974-993	7.2	241

328	Patterned films from exfoliated two-dimensional transition metal dichalcogenides assembled at a liquid□quid interface. *Journal of Materials Chemistry C*, **2017**, 5, 6937-6944	7.1	10
327	Hydrogen sensors based on gold nanoclusters assembled onto ZnO nanostructures at low operating temperature. *Ceramics International*, **2017**, 43, S511-S515	5.1	5
326	Surface Water Dependent Properties of Sulfur-Rich Molybdenum Sulfides: Electrolyteless Gas Phase Water Splitting. *ACS Nano*, **2017**, 11, 6782-6794	16.7	38
325	Highly active two dimensional □MoO3□ for the electrocatalytic hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2017**, 5, 24223-24231	13	118
324	Wafer-Scale Synthesis of Semiconducting SnO Monolayers from Interfacial Oxide Layers of Metallic Liquid Tin. *ACS Nano*, **2017**, 11, 10974-10983	16.7	80
323	A liquid metal reaction environment for the room-temperature synthesis of atomically thin metal oxides. *Science*, **2017**, 358, 332-335	33.3	384
322	Sonication-Assisted Synthesis of Gallium Oxide Suspensions Featuring Trap State Absorption: Test of Photochemistry. *Advanced Functional Materials*, **2017**, 27, 1702295	15.6	78
321	Molybdenum Oxides - From Fundamentals to Functionality. *Advanced Materials*, **2017**, 29, 1701619	24	298
320	Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO. *Nanoscale*, **2017**, 9, 19162-19175	7.7	61
319	A Gallium-Based Magnetocaloric Liquid Metal Ferrofluid. *Nano Letters*, **2017**, 17, 7831-7838	11.5	67
318	A novel wireless gas sensor based on LTCC technology. *Sensors and Actuators B: Chemical*, **2017**, 239, 711-717	8.5	48
317	Designing an in-vitro gas profiling system for human faecal samples. *Sensors and Actuators B: Chemical*, **2017**, 238, 754-764	8.5	13
316	Two dimensional tungsten oxide nanosheets with unprecedented selectivity and sensitivity to NO2 **2017**,		1
315	Sonication synthesis of micro-sized silver nanoparticle/oleic acid liquid marbles: A novel SERS sensing platform. *Sensors and Actuators B: Chemical*, **2016**, 223, 52-58	8.5	15
314	Excitation dependent bidirectional electron transfer in phthalocyanine-functionalised MoS nanosheets. *Nanoscale*, **2016**, 8, 16276-16283	7.7	46
313	Liquid Exfoliation of Layered Transition Metal Dichalcogenides for Biological Applications. *Current Protocols in Chemical Biology*, **2016**, 8, 97-108	1.8	13
312	Potential of in vivo real-time gastric gas profiling: a pilot evaluation of heat-stress and modulating dietary cinnamon effect in an animal model. *Scientific Reports*, **2016**, 6, 33387	4.9	21
311	Guest Editorial Special Issue on Selected Papers From the IEEE Sensors Conference 2014. *IEEE Sensors Journal*, **2016**, 16, 3348-3348	4	

310	Intra-ruminal gas-sensing in real time: a proof-of-concept. *Animal Production Science*, **2016**, 56, 204	1.4	2
309	Liquid-Metal Microdroplets Formed Dynamically with Electrical Control of Size and Rate. *Advanced Materials*, **2016**, 28, 604-9	24	87
308	Exfoliation Solvent Dependent Plasmon Resonances in Two-Dimensional Sub-Stoichiometric Molybdenum Oxide Nanoflakes. *ACS Applied Materials & Interfaces*, **2016**, 8, 3482-93	9.5	91
307	Intercalated 2D MoS2 Utilizing a Simulated Sun Assisted Process: Reducing the HER Overpotential. *Journal of Physical Chemistry C*, **2016**, 120, 2447-2455	3.8	48
306	Biosensors Based on Two-Dimensional MoS2. *ACS Sensors*, **2016**, 1, 5-16	9.2	246
305	Measuring Methane Production from Ruminants. *Trends in Biotechnology*, **2016**, 34, 26-35	15.1	61
304	Controlled Electrochemical Deformation of Liquid-Phase Gallium. *ACS Applied Materials & Interfaces*, **2016**, 8, 3833-9	9.5	29
303	Acoustically-Driven Trion and Exciton Modulation in Piezoelectric Two-Dimensional MoS2. *Nano Letters*, **2016**, 16, 849-55	11.5	64
302	Intestinal Gas Capsules: A Proof-of-Concept Demonstration. *Gastroenterology*, **2016**, 150, 37-9	13.3	50
301	Laser-Induced Dewetting for Precise Local Generation of Au Nanostructures for Tunable Solar Absorption. *Advanced Optical Materials*, **2016**, 4, 1247-1254	8.1	19
300	Exfoliation of Quasi-Stratified Bi2S3 Crystals into Micron-Scale Ultrathin Corrugated Nanosheets. *Chemistry of Materials*, **2016**, 28, 8942-8950	9.6	22
299	Ionic imbalance induced self-propulsion of liquid metals. *Nature Communications*, **2016**, 7, 12402	17.4	116
298	Elastomeric composites for flexible microwave substrates. *Journal of Applied Physics*, **2016**, 119, 124109	2.5	3
297	High-Performance Field Effect Transistors Using Electronic Inks of 2D Molybdenum Oxide Nanoflakes. *Advanced Functional Materials*, **2016**, 26, 91-100	15.6	140
296	Enhanced quantum efficiency from a mosaic of two dimensional MoS2 formed onto aminosilane functionalised substrates. *Nanoscale*, **2016**, 8, 12258-66	7.7	15
295	Two dimensional and layered transition metal oxides. *Applied Materials Today*, **2016**, 5, 73-89	6.6	313
294	2D WS2/carbon dot hybrids with enhanced photocatalytic activity. *Journal of Materials Chemistry A*, **2016**, 4, 13563-13571	13	99
293	Reductive exfoliation of substoichiometric MoS2 bilayers using hydrazine salts. *Nanoscale*, **2016**, 8, 15252-61	7.7	22

292	Anodized nanoporous WO3 Schottky contact structures for hydrogen and ethanol sensing. *Journal of Materials Chemistry A*, **2015**, 3, 7994-8001	13	63
291	Generation of catalytically active materials from a liquid metal precursor. *Chemical Communications*, **2015**, 51, 14026-9	5.8	36
290	A unique in vivo approach for investigating antimicrobial materials utilizing fistulated animals. *Scientific Reports*, **2015**, 5, 11515	4.9	12
289	A spectrally splitting photovoltaic-thermal hybrid receiver utilising direct absorption and wave interference light filtering. *Solar Energy Materials and Solar Cells*, **2015**, 139, 71-80	6.4	28
288	A multi-functional bubble-based microfluidic system. *Scientific Reports*, **2015**, 5, 9942	4.9	34
287	Light driven growth of silver nanoplatelets on 2D MoS2 nanosheet templates. *Journal of Materials Chemistry C*, **2015**, 3, 4771-4778	7.1	27
286	Physisorption-Based Charge Transfer in Two-Dimensional SnS2 for Selective and Reversible NO2 Gas Sensing. *ACS Nano*, **2015**, 9, 10313-23	16.7	479
285	Two-step synthesis of luminescent MoS(2)-ZnS hybrid quantum dots. *Nanoscale*, **2015**, 7, 16763-72	7.7	48
284	Low-temperature fabrication of alkali metal-organic charge transfer complexes on cotton textile for optoelectronics and gas sensing. *Langmuir*, **2015**, 31, 1581-7	4	43
283	Investigation of Two-Solvent Grinding-Assisted Liquid Phase Exfoliation of Layered MoS2. *Chemistry of Materials*, **2015**, 27, 53-59	9.6	160
282	Two-Dimensional Transition Metal Dichalcogenides in Biosystems. *Advanced Functional Materials*, **2015**, 25, 5086-5099	15.6	256
281	2D MoS2 PDMS Nanocomposites for NO2 Separation. *Small*, **2015**, 11, 5035-40	11	48
280	Electronic Tuning of 2D MoS2 through Surface Functionalization. *Advanced Materials*, **2015**, 27, 6225-9	24	158
279	Enhanced Gas Permeation through Graphene Nanocomposites. *Journal of Physical Chemistry C*, **2015**, 119, 13700-13712	3.8	62
278	Human intestinal gas measurement systems: in vitro fermentation and gas capsules. *Trends in Biotechnology*, **2015**, 33, 208-13	15.1	65
277	Passive wireless gas sensors based on the LTCC technique **2015**,		2
276	Optical Hydrogen Sensing Based on Hybrid 2D MoO3/Au Nanoparticles. *Procedia Engineering*, **2015**, 120, 1141-1144		4
275	Plasmon resonances of highly doped two-dimensional MoS *Nano Letters*, **2015**, 15, 883-90	11.5	145

274	Liquid metal/metal oxide frameworks with incorporated Ga2O3 for photocatalysis. *ACS Applied Materials & Interfaces*, **2015**, 7, 1943-8	9.5	115
273	Optical gas sensing properties of nanoporous Nb2O5 films. *ACS Applied Materials & Interfaces*, **2015**, 7, 4751-8	9.5	56
272	Dielectrophoretically controlled Fresnel zone plate. *Lab on A Chip*, **2015**, 15, 1092-100	7.2	3
271	Two solvent grinding sonication method for the synthesis of two-dimensional tungsten disulphide flakes. *Chemical Communications*, **2015**, 51, 3770-3	5.8	50
270	The effect of crosslinking temperature on the permeability of PDMS membranes: Evidence of extraordinary CO2 and CH4 gas permeation. *Separation and Purification Technology*, **2014**, 122, 96-104	8.3	104
269	Liquid Metal/Metal Oxide Frameworks. *Advanced Functional Materials*, **2014**, 24, 3799-3807	15.6	140
268	High Performance Electrochromic Devices Based on Anodized Nanoporous Nb2O5. *Journal of Physical Chemistry C*, **2014**, 118, 476-481	3.8	73
267	Ion-driven photoluminescence modulation of quasi-two-dimensional MoS2 nanoflakes for applications in biological systems. *Nano Letters*, **2014**, 14, 857-63	11.5	215
266	Highly ordered anodized Nb2O5 nanochannels for dye-sensitized solar cells. *Electrochemistry Communications*, **2014**, 40, 20-23	5.1	49
265	Two dimensional □MoO3 nanoflakes obtained using solvent-assisted grinding and sonication method: Application for H2 gas sensing. *Sensors and Actuators B: Chemical*, **2014**, 192, 196-204	8.5	157
264	Thin films and nanostructures of niobium pentoxide: fundamental properties, synthesis methods and applications. *Journal of Materials Chemistry A*, **2014**, 2, 15683-15703	13	207
263	Investigation of different nanoparticles for magnetophoretically enabled nanofin heat sinks in microfluidics. *Lab on A Chip*, **2014**, 14, 1604-13	7.2	6
262	Microfluidic platforms for the investigation of intercellular signalling mechanisms. *Small*, **2014**, 10, 4810-26	12	34
261	Silver nanoparticle/PDMS nanocomposite catalytic membranes for H 2 S gas removal. *Journal of Membrane Science*, **2014**, 470, 346-355	9.6	35
260	Tunable plasmon resonances in two-dimensional molybdenum oxide nanoflakes. *Advanced Materials*, **2014**, 26, 3931-7	24	252
259	PDMS nanocomposites for heat transfer enhancement in microfluidic platforms. *Lab on A Chip*, **2014**, 14, 3419-26	7.2	62
258	Electrospun Granular Hollow SnO2 Nanofibers Hydrogen Gas Sensors Operating at Low Temperatures. *Journal of Physical Chemistry C*, **2014**, 118, 3129-3139	3.8	141
257	Nanostructured copper oxide semiconductors: a perspective on materials, synthesis methods and applications. *Journal of Materials Chemistry C*, **2014**, 2, 5247-5270	7.1	247

256	Substoichiometric two-dimensional molybdenum oxide flakes: a plasmonic gas sensing platform. *Nanoscale*, **2014**, 6, 12780-91	7.7	65
255	Liquid Metal Actuator for Inducing Chaotic Advection. *Advanced Functional Materials*, **2014**, 24, 5851-5858	15.6	144
254	Liquid metal enabled pump. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 3304-9	11.5	230
253	Enhanced Coloration Efficiency for Electrochromic Devices based on Anodized Nb2O5/Electrodeposited MoO3 Binary Systems. *Journal of Physical Chemistry C*, **2014**, 118, 10867-10873	3.8	40
252	Influence of semiconducting properties of nanoparticle coating on the electrochemical actuation of liquid metal marble. *Applied Physics Letters*, **2014**, 105, 121607	3.4	20
251	Dynamic Nanofin Heat Sinks. *Advanced Energy Materials*, **2014**, 4, 1300537	21.8	8
250	Nb2O5 Schottky based ethanol vapour sensors: Effect of metallic catalysts. *Sensors and Actuators B: Chemical*, **2014**, 202, 74-82	8.5	45
249	CNT/PDMS composite membranes for H2 and CH4 gas separation. *International Journal of Hydrogen Energy*, **2013**, 38, 10494-10501	6.7	75
248	Reduced impurity-driven defect states in anodized nanoporous Nb2O5: the possibility of improving performance of photoanodes. *Chemical Communications*, **2013**, 49, 6349-51	5.8	21
247	3-D nanorod arrays of metal–organic KTCNQ semiconductor on textiles for flexible organic electronics. *RSC Advances*, **2013**, 3, 17654	3.7	34
246	Synthesis and Nanoscale Investigation of the Electrical Properties of Quasi-2D Semiconductor Nb $_{bf 2}$O$_{bf 5}$ Nanosheets. *IEEE Nanotechnology Magazine*, **2013**, 12, 641-648	2.6	8
245	Semiconductors: Two-Dimensional Molybdenum Trioxide and Dichalcogenides (Adv. Funct. Mater. 32/2013). *Advanced Functional Materials*, **2013**, 23, 3946-3946	15.6	4
244	A hydrogen/methane sensor based on niobium tungsten oxide nanorods synthesised by hydrothermal method. *Sensors and Actuators B: Chemical*, **2013**, 184, 118-129	8.5	31
243	A vein-like nanoporous network of Nb2O5 with a higher lithium intercalation discharge cut-off voltage. *Journal of Materials Chemistry A*, **2013**, 1, 11019	13	70
242	Electrochemical control of photoluminescence in two-dimensional MoS(2) nanoflakes. *ACS Nano*, **2013**, 7, 10083-93	16.7	240
241	Field effect biosensing platform based on 2D MoO(3). *ACS Nano*, **2013**, 7, 9753-60	16.7	132
240	Photochemically induced motion of liquid metal marbles. *Applied Physics Letters*, **2013**, 103, 174104	3.4	102
239	Improving the hydrogen gas sensing performance of Pt/MoO3 nanoplatelets using a nano thick layer of La2O3. *Sensors and Actuators B: Chemical*, **2013**, 187, 267-273	8.5	24

238	Nanostructured copper oxides as ethanol vapour sensors. *Sensors and Actuators B: Chemical*, **2013**, 185, 620-627	8.5	100
237	Alkali ratio control for lead-free piezoelectric thin films utilizing elemental diffusivities in RF plasma. *CrystEngComm*, **2013**, 15, 7222	3.3	18
236	**2013**,		2
235	Electrochromic properties of TiO2 nanotubes coated with electrodeposited MoO3. *Nanoscale*, **2013**, 5, 10353-9	7.7	54
234	Assessment of a Raman micro-spectroscopy/microfluidics unit using a model E. coli/glucose bio-system **2013**,		1
233	Nanoporous Nb2O5 hydrogen gas sensor. *Sensors and Actuators B: Chemical*, **2013**, 176, 149-156	8.5	102
232	Anodic formation of a thick three-dimensional nanoporous WO3 film and its photocatalytic property. *Electrochemistry Communications*, **2013**, 27, 128-132	5.1	51
231	Hydrothermally formed functional niobium oxide doped tungsten nanorods. *Nanotechnology*, **2013**, 24, 495501	3.4	14
230	In situ SERS probing of nano-silver coated individual yeast cells. *Biosensors and Bioelectronics*, **2013**, 49, 536-41	11.8	45
229	Enhanced charge carrier mobility in two-dimensional high dielectric molybdenum oxide. *Advanced Materials*, **2013**, 25, 109-14	24	296
228	Silane: A new linker for chromophores in dye-sensitised solar cells. *Polyhedron*, **2013**, 52, 719-732	2.7	24
227	Two-Dimensional Molybdenum Trioxide and Dichalcogenides. *Advanced Functional Materials*, **2013**, 23, 3952-3970	15.6	378
226	Optical response of WO3 nanostructured thin films sputtered on different transparent substrates towards hydrogen of low concentration. *Sensors and Actuators B: Chemical*, **2013**, 177, 981-988	8.5	30
225	Engineering electrodeposited ZnO films and their memristive switching performance. *Physical Chemistry Chemical Physics*, **2013**, 15, 10376-84	3.6	45
224	In situ nanoindentation: Probing nanoscale multifunctionality. *Progress in Materials Science*, **2013**, 58, 1-29	42.2	76
223	Microfluidics and Raman microscopy: current applications and future challenges. *Chemical Society Reviews*, **2013**, 42, 5880-906	58.5	149
222	Modifying dielectrophoretic response of nonviable yeast cells by ionic surfactant treatment. *Analytical Chemistry*, **2013**, 85, 6364-71	7.8	17
221	Electrochemically induced actuation of liquid metal marbles. *Nanoscale*, **2013**, 5, 5949-57	7.7	160

220	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide (Adv. Mater. 1/2013). *Advanced Materials*, **2013**, 25, 108-108	24	8
219	Transition metal oxides Thermoelectric properties. *Progress in Materials Science*, **2013**, 58, 1443-1489	42.2	242
218	Reorientation of microfluidic channel enables versatile dielectrophoretic platforms for cell manipulations. *Electrophoresis*, **2013**, 34, 1407-14	3.6	8
217	MnO2-Based Thermopower Wave Sources with Exceptionally Large Output Voltages. *Journal of Physical Chemistry C*, **2013**, 117, 9137-9142	3.8	60
216	Atomic Force Microscopy Adhesion Mapping: Revealing Assembly Process in Inorganic Systems. *Journal of Physical Chemistry C*, **2013**, 117, 19984-19990	3.8	8
215	Liquid Metal Marbles. *Advanced Functional Materials*, **2013**, 23, 144-152	15.6	191
214	Multivariate analysis of apoptotic markers versus cell cycle phase in living human cancer cells by microfluidic cytometry. *Proceedings of SPIE*, **2013**, 8615,	1.7	1
213	Dielectrophoresis with 3D microelectrodes fabricated by surface tension assisted lithography. *Electrophoresis*, **2013**, 34, 3150-4	3.6	11
212	Characterization of metal contacts for two-dimensional MoS2 nanoflakes. *Applied Physics Letters*, **2013**, 103, 232105	3.4	120
211	Transparent functional oxide stretchable electronics: micro-tectonics enabled high strain electrodes. *NPG Asia Materials*, **2013**, 5, e62-e62	10.3	58
210	Transduction Platforms **2013**, 63-148		
209	Development of antifouling of electrochemical solid-state dissolved oxygen sensors based on nanostructured Cu0.4Ru3.4O7 + RuO2 sensing electrodes. *Electrochimica Acta*, **2012**, 73, 105-111	6.7	29
208	Influence of thickness of sub-micron Cu2O-doped RuO2 electrode on sensing performance of planar electrochemical pH sensors. *Materials Letters*, **2012**, 75, 165-168	3.3	22
207	H2 sensing performance of optical fiber coated with nano-platelet WO3 film. *Sensors and Actuators B: Chemical*, **2012**, 166-167, 1-6	8.5	47
206	Nanocomposite carbon-PDMS membranes for gas separation. *Sensors and Actuators B: Chemical*, **2012**, 161, 982-988	8.5	48
205	On-chip separation of Lactobacillus bacteria from yeasts using dielectrophoresis. *Microfluidics and Nanofluidics*, **2012**, 12, 597-606	2.8	42
204	Electronics and optoelectronics of two-dimensional transition metal dichalcogenides. *Nature Nanotechnology*, **2012**, 7, 699-712	28.7	10871
203	Interaction of hydrogen with ZnO nanopowders--evidence of hydroxyl group formation. *Nanotechnology*, **2012**, 23, 015705	3.4	34

202	Electrodeposited □and □Phase MoO3 Films and Investigation of Their Gasochromic Properties. *Crystal Growth and Design*, **2012**, 12, 1865-1870	3.5	173
201	Enhanced electrochemical heavy metal ion sensor using liquid metal marbles - towards on-chip application **2012**,		2
200	Thermal analysis of nanofluids in microfluidics using an infrared camera. *Lab on A Chip*, **2012**, 12, 2520-5	7.2	17
199	Influence of electric field on SERS: frequency effects, intensity changes, and susceptible bonds. *Journal of the American Chemical Society*, **2012**, 134, 4646-53	16.4	36
198	Polyvinylpyrrolidone/polyaniline composite based 36□YX LiTaO3 Surface Acoustic Wave H2 gas sensor **2012**,		1
197	The anodized crystalline WO3 nanoporous network with enhanced electrochromic properties. *Nanoscale*, **2012**, 4, 5980-8	7.7	140
196	Enhancing the current density of electrodeposited ZnO□u2O solar cells by engineering their heterointerfaces. *Journal of Materials Chemistry*, **2012**, 22, 21767		65
195	Optofluidics incorporating actively controlled micro- and nano-particles. *Biomicrofluidics*, **2012**, 6, 31501	3.2	65
194	ZnO based thermopower wave sources. *Chemical Communications*, **2012**, 48, 7462-4	5.8	69
193	Decoration of TiO2 nanotubes with metal nanoparticles using polyoxometalate as a UV-switchable reducing agent for enhanced visible and solar light photocatalysis. *Langmuir*, **2012**, 28, 14470-5	4	86
192	Active control of silver nanoparticles spacing using dielectrophoresis for surface-enhanced Raman scattering. *Analytical Chemistry*, **2012**, 84, 4029-35	7.8	56
191	Elevated temperature anodized Nb2O5: a photoanode material with exceptionally large photoconversion efficiencies. *ACS Nano*, **2012**, 6, 4045-53	16.7	150
190	Dynamic manipulation of modes in an optical waveguide using dielectrophoresis. *Electrophoresis*, **2012**, 33, 2075-85	3.6	7
189	Atomically thin layers of MoS2 via a two step thermal evaporation-exfoliation method. *Nanoscale*, **2012**, 4, 461-6	7.7	221
188	Interaction of hydrogen with zinc oxide nanorods: why the spacing is important. *Nanotechnology*, **2011**, 22, 135704	3.4	6
187	Carbon nanotube/polyaniline composite nanofibers: facile synthesis and chemosensors. *Nano Letters*, **2011**, 11, 954-9	11.5	192
186	Synthesis of the nanostructured WO3 via anodization at elevated temperature for H2 sensing applications. *Procedia Engineering*, **2011**, 25, 247-251		23
185	Carrier Mobility of Single-Walled Carbon Nanotube-Reinforced Polyaniline Nanofibers. *Journal of Physical Chemistry C*, **2011**, 115, 16187-16192	3.8	36

184	Sb2Te3 and Bi2Te3 based thermopower wave sources. *Energy and Environmental Science*, **2011**, 4, 3558	35.4	66
183	Wavefront velocity oscillations of carbon-nanotube-guided thermopower waves: nanoscale alternating current sources. *ACS Nano*, **2011**, 5, 367-75	16.7	38
182	Gold nanoparticle-decorated keggin ions/TiO2 photococatalyst for improved solar light photocatalysis. *Langmuir*, **2011**, 27, 6661-7	4	78
181	Hydrogen gas sensing properties of Pt/Ta2O5 Schottky diodes based on Si and SiC substrates. *Sensors and Actuators A: Physical*, **2011**, 172, 9-14	3.9	22
180	Optical Hydrogen Sensing Properties of Nanostructured Pd/MoO3 Films. *Sensor Letters*, **2011**, 9, 16-20	0.9	18
179	Dielectrophoresis of micro/nano particles using curved microelectrodes **2011**,		1
178	The correlation between electric field emission phenomenon and Schottky contact reverse bias characteristics in nanostructured systems. *Journal of Applied Physics*, **2011**, 109, 114316	2.5	7
177	QCM based mercury vapor sensor modified with polypyrrole supported palladium. *Sensors and Actuators B: Chemical*, **2011**, 160, 616-622	8.5	25
176	Facile, size-controlled deposition of highly dispersed gold nanoparticles on nitrogen carbon nanotubes for hydrogen sensing. *Sensors and Actuators B: Chemical*, **2011**, 160, 1034-1042	8.5	18
175	Improved antifouling resistance of electrochemical water quality sensors based on Cu2O-doped RuO2 sensing electrode. *Progress in Organic Coatings*, **2011**, 70, 67-73	4.8	31
174	Interaction of guided light in rib polymer waveguides with dielectrophoretically controlled nanoparticles. *Microfluidics and Nanofluidics*, **2011**, 11, 93-104	2.8	11
173	Oscillatory Thermopower Waves Based on Bi2Te3 Films. *Advanced Functional Materials*, **2011**, 21, 2072-2079	10.0	53
172	Nanostructured Tungsten Oxide Properties, Synthesis, and Applications. *Advanced Functional Materials*, **2011**, 21, 2175-2196	15.6	994
171	Dielectrophoretic platforms for bio-microfluidic systems. *Biosensors and Bioelectronics*, **2011**, 26, 1800-14	11.8	266
170	NanoDYNAMITE. *IEEE Spectrum*, **2011**, 48, 44-49	1.7	35
169	Dielectrophoresis-Raman spectroscopy system for analysing suspended nanoparticles. *Lab on A Chip*, **2011**, 11, 921-8	7.2	46
168	In situ Raman spectroscopy of H2 interaction with WO3 films. *Physical Chemistry Chemical Physics*, **2011**, 13, 7330-9	3.6	63
167	. *IEEE Sensors Journal*, **2011**, 11, 1913-1916	4	2

166	Dynamic analysis of drug-induced cytotoxicity using chip-based dielectrophoretic cell immobilization technology. *Analytical Chemistry*, **2011**, 83, 2133-44	7.8	52
165	**2011**,		1
164	In Situ Raman Spectroscopy of H2 Gas Interaction with Layered MoO3. *Journal of Physical Chemistry C*, **2011**, 115, 10757-10763	3.8	150
163	Interfacing cell-based assays in environmental scanning electron microscopy using dielectrophoresis. *Analytical Chemistry*, **2011**, 83, 3217-21	7.8	19
162	Surface morphology induced localized electric field and piezoresponse enhancement in nanostructured thin films. *ACS Nano*, **2011**, 5, 1067-72	16.7	4
161	Potentiometric solid-state sensor for DO measurement in water using sub-micron Cu0.4Ru3.4O7+RuO2 sensing electrode. *Sensors and Actuators B: Chemical*, **2011**, 153, 312-320	8.5	14
160	Structural and gas-sensing properties of CuO□uxFe3□O4 nanostructured thin films. *Sensors and Actuators B: Chemical*, **2011**, 153, 117-124	8.5	25
159	Polyvinylpyrrolidone/Multiwall Carbon Nanotube Composite Based 36□YX LiTaO3 Surface Acoustic Wave For Hydrogen Gas Sensing Applications **2011**,		1
158	A Hydrogen Gas Sensor Based on Pt/Nanostructured WO3/SiC Schottky Diode. *Sensor Letters*, **2011**, 9, 11-15	0.9	18
157	Pt/Nanograined ZnO/SiC Schottky Diode Based Hydrogen and Propene Sensor. *Sensor Letters*, **2011**, 9, 55-58	0.9	4
156	Layered Surface Acoustic Wave Hydrogen Sensor with Nanoporous Polyaniline as the Active Layer. *Sensor Letters*, **2011**, 9, 73-76	0.9	2
155	WO3-Au-Pt Nanocrystalline Thin Films as Optical Gas Sensors. *Sensor Letters*, **2011**, 9, 595-599	0.9	6
154	Guided SH-SAW Sensing System for Liquid Viscosity Sensing Applications. *Sensor Letters*, **2011**, 9, 605-608	0.9	4
153	Pt/Nanostructured RuO2/SiC Schottky Diode Based Hydrogen Gas Sensors. *Sensor Letters*, **2011**, 9, 797-800	0.9	3
152	SAW Gas Sensors with Metal Oxides Nanoplatelets Layers. *Sensor Letters*, **2011**, 9, 920-924	0.9	3
151	SAW Gas Sensors with Titania Nanotubes Layers. *Sensor Letters*, **2011**, 9, 925-928	0.9	2
150	Gas Sensing Properties of Interconnected ZnO Nanowires. *Sensor Letters*, **2011**, 9, 929-935	0.9	7
149	Dielectrophoretically tuneable optical waveguides using nanoparticles in microfluidics. *Applied Physics Letters*, **2010**, 96, 101108	3.4	11

148	Nanorod based Schottky contact gas sensors in reversed bias condition. *Nanotechnology*, **2010**, 21, 265502	3.4	85
147	Enhancement of electric field properties of Pt/nanoplatelet MoO3/SiC Schottky diode. *Journal Physics D: Applied Physics*, **2010**, 43, 025103	3	21
146	Synthesis of Nanostructured Tungsten Oxide Thin Films: A Simple, Controllable, Inexpensive, Aqueous Sol□el Method. *Crystal Growth and Design*, **2010**, 10, 430-439	3.5	141
145	Uniformly Dispersed Pt□Ni Nanoparticles on Nitrogen-Doped Carbon Nanotubes for Hydrogen Sensing. *Journal of Physical Chemistry C*, **2010**, 114, 238-242	3.8	52
144	Platinum/Graphene Nanosheet/SiC Contacts and Their Application for Hydrogen Gas Sensing. *Journal of Physical Chemistry C*, **2010**, 114, 13796-13801	3.8	154
143	Synthesis of Atomically Thin WO3 Sheets from Hydrated Tungsten Trioxide. *Chemistry of Materials*, **2010**, 22, 5660-5666	9.6	187
142	Synthesis of nanometre-thick MoO3 sheets. *Nanoscale*, **2010**, 2, 429-33	7.7	207
141	Graphene/Polyaniline Nanocomposite for Hydrogen Sensing. *Journal of Physical Chemistry C*, **2010**, 114, 16168-16173	3.8	387
140	Dye-sensitized solar cells based on WO3. *Langmuir*, **2010**, 26, 19148-52	4	293
139	Size based separation of microparticles using a dielectrophoretic activated system. *Journal of Applied Physics*, **2010**, 108, 034904	2.5	22
138	Pt/MoO **2010**,		2
137	Evidence for high-efficiency exciton dissociation at polymer/single-walled carbon nanotube interfaces in planar nano-heterojunction photovoltaics. *ACS Nano*, **2010**, 4, 6251-9	16.7	78
136	Dielectrophoresis for manipulation of micro/nano particles in microfluidic systems. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 401-20	4.4	213
135	Hydrogen gas sensing properties of Pt/Ta2O5 Schottky diodes based on Si and SiC substrates. *Procedia Engineering*, **2010**, 5, 147-151		6
134	Gas sensing properties of thermally evaporated lamellar MoO3. *Sensors and Actuators B: Chemical*, **2010**, 145, 13-19	8.5	220
133	Dielectrophoretic-activated cell sorter based on curved microelectrodes. *Microfluidics and Nanofluidics*, **2010**, 9, 411-426	2.8	44
132	Dielectrophoretically assembled particles: feasibility for optofluidic systems. *Microfluidics and Nanofluidics*, **2010**, 9, 755-763	2.8	9
131	Aqueous synthesis of interconnected ZnO nanowires using spray pyrolysis deposited seed layers. *Materials Letters*, **2010**, 64, 291-294	3.3	82

130	Novel tuneable optical elements based on nanoparticle suspensions in microfluidics. *Electrophoresis*, **2010**, 31, 1071-9	3.6	17
129	Particle trapping using dielectrophoretically patterned carbon nanotubes. *Electrophoresis*, **2010**, 31, 1366-75	3.6	22
128	Dielectrophoretically patterned carbon nanotubes to sort microparticles. *Electrophoresis*, **2010**, 31, 3380-90	3.6	8
127	H2 sensing performance of optical fiber coated with nano-platelet WO3 film. *Procedia Engineering*, **2010**, 5, 1204-1207		4
126	Comparison study of conductometric, optical and SAW gas sensors based on porous sol–gel silica films doped with NiO and Au nanocrystals. *Sensors and Actuators B: Chemical*, **2010**, 143, 567-573	8.5	28
125	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
124	Electrospun PVP fibers and gas sensing properties of PVP/36°YX LiTaO3 SAW device. *Sensors and Actuators B: Chemical*, **2010**, 145, 674-679	8.5	27
123	Comparative study of the gasochromic performance of Pd/WO3 and Pt/WO3 nanotextured thin films for low concentration hydrogen sensing **2009**,		1
122	Pt/graphene nano-sheet based hydrogen gas sensor **2009**,		9
121	Reverse biased Pt/nanostructured MoO3/SiC Schottky diode based hydrogen gas sensors. *Applied Physics Letters*, **2009**, 94, 013504	3.4	49
120	Reverse Biased Schottky Contact Hydrogen Sensors Based on Pt/nanostructured ZnO/SiC **2009**,		2
119	Seeded growth of ZnO nanorods from NaOH solutions. *Materials Letters*, **2009**, 63, 249-251	3.3	11
118	Dielectrophoretic manipulation and separation of microparticles using curved microelectrodes. *Electrophoresis*, **2009**, 30, 3707-17	3.6	56
117	Dielectrophoretic separation of carbon nanotubes and polystyrene microparticles. *Microfluidics and Nanofluidics*, **2009**, 7, 633-645	2.8	44
116	Absorption spectral response of nanotextured WO3 thin films with Pt catalyst towards H2. *Sensors and Actuators B: Chemical*, **2009**, 137, 115-120	8.5	131
115	Hydrogen gas sensor based on highly ordered polyaniline nanofibers. *Sensors and Actuators B: Chemical*, **2009**, 137, 529-532	8.5	80
114	Nanostructured WO3 films using high temperature anodization. *Sensors and Actuators B: Chemical*, **2009**, 142, 230-235	8.5	42
113	Effect of crystallographic orientation on the anodic formation of nanoscale pores/tubes in TiO2 films. *Applied Surface Science*, **2009**, 256, 120-123	6.7	14

112	Nanoporous WO3 from anodized RF sputtered tungsten thin films. *Electrochemistry Communications*, **2009**, 11, 768-771	5.1	65
111	Nanoporous TiO2 thin film based conductometric H2 sensor. *Thin Solid Films*, **2009**, 518, 1294-1298	2.2	44
110	ZnO nanostructures grown on epitaxial GaN. *Thin Solid Films*, **2009**, 518, 1053-1056	2.2	2
109	Nanoporous titanium oxide synthesized from anodized Filtered Cathodic Vacuum Arc Ti thin films. *Thin Solid Films*, **2009**, 518, 1180-1184	2.2	7
108	Synthesis and electrochemical properties of template-based polyaniline nanowires and template-free nanofibril arrays: Two potential nanostructures for gas sensors. *Sensors and Actuators B: Chemical*, **2009**, 136, 1-7	8.5	36
107	Layered SAW gas sensor based on CSA synthesized polyaniline nanofiber on AlN on 64°YX LiNbO3 for H2 sensing. *Sensors and Actuators B: Chemical*, **2009**, 138, 85-89	8.5	46
106	Layered Surface Acoustic Wave Hydrogen Sensor Based on Polyethylaniline Nanofibers. *Procedia Chemistry*, **2009**, 1, 220-223		3
105	Optical H2 Sensing Performance of Anodized Nanoporous TiO2 Thin Films. *Procedia Chemistry*, **2009**, 1, 951-954		10
104	A comparison of forward and reverse bias operation in a Pt/nanostructured ZnO Schottky diode based hydrogen sensor. *Procedia Chemistry*, **2009**, 1, 979-982		13
103	Graphene-like nano-sheets for surface acoustic wave gas sensor applications. *Chemical Physics Letters*, **2009**, 467, 344-347	2.5	321
102	Fast formation of thick and transparent titania nanotubular films from sputtered Ti. *Electrochemistry Communications*, **2009**, 11, 1308-1311	5.1	38
101	High-temperature anodized WO3 nanoplatelet films for photosensitive devices. *Langmuir*, **2009**, 25, 9545-51	4	103
100	Anodization of Ti thin film deposited on ITO. *Langmuir*, **2009**, 25, 509-14	4	76
99	Fabrication, Structural Characterization and Testing of a Nanostructured Tin Oxide Gas Sensor. *IEEE Sensors Journal*, **2009**, 9, 563-568	4	15
98	Transition from n- to p-Type of Spray Pyrolysis Deposited Cu Doped ZnO Thin Films for NO2 Sensing. *Sensor Letters*, **2009**, 7, 621-628	0.9	63
97	Electrowetting of superhydrophobic ZnO nanorods. *Langmuir*, **2008**, 24, 5091-8	4	71
96	Nanotechnology-Enabled Sensors **2008**,		51
95	A polyaniline/WO3 nanofiber composite-based ZnO/64°YX LiNbO3 SAW hydrogen gas sensor. *Synthetic Metals*, **2008**, 158, 29-32	3.6	71

94	Conductometric Hydrogen Gas Sensor Based on Polypyrrole Nanofibers. *IEEE Sensors Journal*, **2008**, 8, 365-370	4	54
93	Conductometric sensor based on nanostructured titanium oxide thin film deposited on polyimide substrate with dissimilar metallic electrodes **2008**,		3
92	**2008**,		1
91	Mixing characterisation for a serpentine microchannel equipped with embedded barriers **2008**,		1
90	A hydrogen gas sensor fabricated from polythiophene nanofibers deposited on a 36°YX LiTaO 3 layered surface acoustic wave transducer **2008**,		1
89	Pt/ZnO/SiC thin film for hydrogen gas sensing **2008**,		2
88	Nanostructured SnO(2) films prepared from evaporated Sn and their application as gas sensors. *Nanotechnology*, **2008**, 19, 125504	3.4	37
87	Graphene-like nano-Sheets/36°LiTaO3 surface acoustic wave hydrogen gas sensor **2008**,		4
86	Titanium Dioxide-Based64?YXLiNbO3Surface Acoustic Wave Hydrogen Gas Sensors. *Journal of Sensors*, **2008**, 2008, 1-5	2	5
85	Polypyrrole nanofiber surface acoustic wave gas sensors. *Sensors and Actuators B: Chemical*, **2008**, 134, 826-831	8.5	101
84	Effect of Bi3+ ion on piezoelectric properties of K x Na1 NbO3. *Journal of Electroceramics*, **2008**, 21, 629-632	1.5	9
83	Fabrication of nanostructured TiO2 by anodization: A comparison between electrolytes and substrates. *Sensors and Actuators B: Chemical*, **2008**, 130, 25-31	8.5	51
82	Gold Coated Nanostructured Molybdenum Oxide Mercury Vapour Quartz Crystal Microbalance Sensor. *Sensor Letters*, **2008**, 6, 231-236	0.9	7
81	HYDROGEN GAS SENSING PERFORMANCE OF Pt/SnO2 NANOWIRES/SiC MOS DEVICES. *International Journal on Smart Sensing and Intelligent Systems*, **2008**, 1, 771-783	0.4	13
80	Density Functional Theory Study of ZnO Nanostructures for NO and NO2 Sensing **2007**,		4
79	Intelligent control of surface hydrophobicity. *ChemPhysChem*, **2007**, 8, 2036-50	3.2	102
78	A ZnO nanorod based layered ZnO/64°YX LiNbO3 SAW hydrogen gas sensor. *Thin Solid Films*, **2007**, 515, 8705-8708	2.2	76
77	Doped and dedoped polyaniline nanofiber based conductometric hydrogen gas sensors. *Sensors and Actuators A: Physical*, **2007**, 139, 53-57	3.9	118

76	Layered SAW gas sensor with single-walled carbon nanotube-based nanocomposite coating. *Sensors and Actuators B: Chemical*, **2007**, 127, 168-178	8.5	77
75	Nitrogen dioxide gas sensors based on titanium dioxide thin films deposited on langasite. *Thin Solid Films*, **2007**, 515, 8738-8743	2.2	22
74	A polyaniline nanofibre electrode and its application in a self-powered photoelectrochromic cell. *Nanotechnology*, **2007**, 18, 015201	3.4	32
73	Spatial Sensitivity Distribution of Surface Acoustic Wave Resonator Sensors. *IEEE Sensors Journal*, **2007**, 7, 204-212	4	4
72	Characterization of ZnO Nanobelt-Based Gas Sensor for ${rm H}_{2}$, ${rm NO}_{2}$, and Hydrocarbon Sensing. *IEEE Sensors Journal*, **2007**, 7, 919-924	4	192
71	3D Modeling and Simulation of SH-SAW Devices Using the Finite Element Method **2007**,		2
70	Optical and conductivity dependence on doping concentration of polyaniline nanofibers **2007**,		1
69	Electrochemical Release of Immobilized IgG Protein. *Materials Research Society Symposia Proceedings*, **2007**, 1010, 1		
68	Anodization of Sputtered Titanium Films. *Materials Research Society Symposia Proceedings*, **2007**, 1023, 1		
67	Hydrogen gas sensor fabricated from polyanisidine nanofibers deposited on 36□YX LiTaO 3 layered surface acoustic wave transducer **2007**,		1
66	Pt/SnO2 Nanowires/SiC Based Hydrogen Gas Sensor **2007**,		1
65	Polyaniline Nanofiber Based Surface Acoustic Wave Gas Sensors□Effect of Nanofiber Diameter on $hbox{H}_{2}$ Response. *IEEE Sensors Journal*, **2007**, 7, 213-218	4	68
64	SAW-based gas sensors with rf sputtered InOx and PECVD SiNx films: Response to H2 and O3 gases. *Sensors and Actuators B: Chemical*, **2006**, 118, 362-367	8.5	20
63	Comparison between conductometric and layered surface acoustic wave hydrogen gas sensors. *Smart Materials and Structures*, **2006**, 15, S131-S136	3.4	15
62	The fascinating but deceptive ferritin: to measure it or not to measure it in chronic kidney disease?. *Clinical Journal of the American Society of Nephrology: CJASN*, **2006**, 1 Suppl 1, S9-18	6.9	126
61	Carbon Monoxide Gas Sensor Based on Titanium Dioxide Nanocrystalline with a Langasite Substrate **2006**,		2
60	Nanomaterial Based Room Temperature Hydrogen Gas Sensors **2006**,		2
59	3K-5 Electrical Parameter Extraction of a Flexural Plate Wave Device Using the Finite Element Method **2006**,		1

58	A layered surface acoustic wave gas sensor based on a polyaniline/In2O3nanofibre composite. *Nanotechnology*, **2006**, 17, 4488-4492	3.4	184
57	A Room Temperature Polyaniline/SnO2 Nanofiber Composite Based Layered ZnO/64°YX LiNbO3 SAW Hydrogen Gas Sensor **2006**,		1
56	Formation of nanoporous titanium oxide films on silicon substrates using an anodization process. *Nanotechnology*, **2006**, 17, 808-814	3.4	58
55	Nanostructured Molybdenum Oxide Gas Sensors **2006**,		1
54	Camphor sulfonic acid-doped polyaniline nanofiber-based 64oYX LiNbO 3 SAW hydrogen gas sensor **2006**,		1
53	Association of anemia with outcomes in men with moderate and severe chronic kidney disease. *Kidney International*, **2006**, 69, 560-4	9.9	120
52	Integrated microthermoelectric cooler for microfluidic channels. *Experimental Thermal and Fluid Science*, **2006**, 30, 821-828	3	10
51	Layered WO3/ZnO/36°LiTaO3 SAW gas sensor sensitive towards ethanol vapour and humidity. *Sensors and Actuators B: Chemical*, **2006**, 117, 442-450	8.5	48
50	Comparison of ZnO/64°LiNbO3 and ZnO/36°LiTaO3 Surface Acoustic Wave Devices for Sensing Applications. *Sensor Letters*, **2006**, 4, 135-138	0.9	8
49	Hydrogen Gas Sensor Based on SbxOy Nanostructures with a Langasite Substrate. *Sensor Letters*, **2006**, 4, 419-425	0.9	6
48	Development of a conductive photoresist with a mixture of SU-8 and HCl doped polyaniline **2005**,		3
47	Thermoelectric properties of bismuth telluride thin films deposited by radio frequency magnetron sputtering **2005**,		14
46	Comparative study of surface acoustic wave based hydrogen sensors with: InO x /SiN x /36°YX LiTaO 3 structure **2005**, 6035, 333		
45	Hydrogen sensing characteristics of WO3 thin film conductometric sensors activated by Pt and Au catalysts. *Sensors and Actuators B: Chemical*, **2005**, 108, 154-158	8.5	153
44	Highly sensitive layered ZnO/LiNbO3 SAW device with InOx selective layer for NO2 and H2 gas sensing. *Sensors and Actuators B: Chemical*, **2005**, 111-112, 207-212	8.5	50
43	Layered SAW hydrogen sensor with modified tungsten trioxide selective layer. *Sensors and Actuators B: Chemical*, **2005**, 108, 553-557	8.5	48
42	Optimum Sensitive Area of Surface Acoustic Wave Resonator Chemical and Bio-Sensors **2005**,		1
41	Comparison of Conductometric Gas Sensitivity of Surface Acoustic Wave Modes in Layered Structures. *Sensor Letters*, **2005**, 3, 66-70	0.9	7

40	Microstructural Characterisation of RF Magnetron Sputtered ZnO Thin Films on SiC. *Solid State Phenomena*, **2004**, 99-100, 123-126	0.4	1
39	Association between serum ferritin and measures of inflammation, nutrition and iron in haemodialysis patients. *Nephrology Dialysis Transplantation*, **2004**, 19, 141-9	4.3	226
38	Numerical calculation of SAW sensitivity: application to ZnO/LiTaO3 transducers. *Sensors and Actuators A: Physical*, **2004**, 115, 456-461	3.9	51
37	Comparison between conductometric and layered SAW hydrogen gas sensor **2004**,		2
36	Layered SAW nitrogen dioxide sensor with WO 3 selective layer **2003**,		1
35	Novel Love mode surface acoustic wave based immunosensors. *Sensors and Actuators B: Chemical*, **2003**, 91, 143-147	8.5	46
34	Comparison of layered based SAW sensors. *Sensors and Actuators B: Chemical*, **2003**, 91, 303-308	8.5	19
33	Investigation of the oxygen gas sensing performance of Ga2O3 thin films with different dopants. *Sensors and Actuators B: Chemical*, **2003**, 93, 431-434	8.5	114
32	p- and n-type Fe-doped SnO2 gas sensors fabricated by the mechanochemical processing technique. *Sensors and Actuators B: Chemical*, **2003**, 93, 562-565	8.5	116
31	A Layered Surface Acoustic Wave ZnO/LiTaO3 Structure with a WO3 Selective Layer for Hydrogen Sensing. *Sensor Letters*, **2003**, 1, 33-36	0.9	29
30	A novel Love-mode device based on a ZnO/ST-cut quartz crystal structure for sensing applications. *Sensors and Actuators A: Physical*, **2002**, 100, 135-143	3.9	59
29	Finite-element analysis for simulation of layered SAW devices with XY LiNbO 3 substrate **2002**,		1
28	Love mode layered surface acoustic wave filters. *Electronics Letters*, **2001**, 37, 802	1.1	4
27	Sol-gel prepared MoO3-WO3 thin-films for O2 gas sensing. *Sensors and Actuators B: Chemical*, **2001**, 77, 478-483	8.5	97
26	Diagnosis of hemochromatosis. *Annals of Internal Medicine*, **1999**, 131, 311	8	5
25	Total iron-binding capacity-estimated transferrin correlates with the nutritional subjective global assessment in hemodialysis patients. *American Journal of Kidney Diseases*, **1998**, 31, 263-72	7.4	129
24	Nontraumatic bilateral rupture of patellar tendons in a diabetic dialysis patient with secondary hyperparathyroidism. *Nephrology Dialysis Transplantation*, **1997**, 12, 1988-90	4.3	23
23	Diagnosis of iron deficiency anemia in renal failure patients during the post-erythropoietin era. *American Journal of Kidney Diseases*, **1995**, 26, 292-9	7.4	144

22	Comprehensive analysis of SAW sensor performance in liquid media by Green's function method		3
21	Finite Element Modelling of Flexural Plate Devices		1
20	A 3-dimensional finite element approach for simulating acoustic wave propagation in layered SAW devices		17
19	A room temperature polyaniline nanofiber hydrogen gas sensor		4
18	ZnO Nanobelt Based Conductometric H2 and NO2 Gas Sensors		10
17	H/sub 2/ and NO/sub 2/ gas sensors with ZnO nanobelt layer on 36/spl deg/ LiTaO/sub 3/ and 64/spl deg/ LiNbO/sub 3/ SAW transducers		1
16	Palladium nanowire hydrogen sensor based on a SAW transducer		1
15	A novel Love mode device with nanocrystalline ZnO film for gas sensing applications		1
14	Love mode SAW sensors with ZnO layer operating in gas and liquid media		2
13	A layered SAW device based on ZnO/LiTaO/sub 3/ for liquid media sensing applications		6
12	Investigation of gas sensors for cabin air quality monitoring		1
11	Study of novel Love mode surface acoustic wave filters		4
10	A finite element approach for 3-dimensional simulation of layered acoustic wave transducers		4
9	Vehicle cabin air quality monitor using gas sensors for improved safety		6
8	Ventilation control for improved cabin air quality and vehicle safety		3
7	A novel Love mode SAW sensor with ZnO layer operating in gas and liquid media		3
6	Gallium-Based Liquid Metal Reaction Media for Interfacial Precipitation of Bismuth Nanomaterials with Controlled Phases and Morphologies. *Advanced Functional Materials*,2108673	15.6	10
5	Intermetallic wetting enabled high resolution liquid metal patterning for 3D and flexible electronics. *Journal of Materials Chemistry C*,	7.1	12

4	Liquid metal batteries for future energy storage. *Energy and Environmental Science*,	35.4	32
3	Post-Transition Metal Electrodes for Sensing Heavy Metal Ions by Stripping Voltammetry. *Advanced Materials Technologies*,2100760	6.8	2
2	Soft Liquid Metal Infused Conductive Sponges. *Advanced Materials Technologies*,2101500	6.8	6
1	Cell-Mediated Biointerfacial Phenolic Assembly for Probiotic Nano Encapsulation. *Advanced Functional Materials*,2200775	15.6	2