

Jianxin Yi

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,631
citations

236925

25
h-index

289244

40
g-index

53
all docs

53
docs citations

53
times ranked

1416
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of vapors from overheated PVC cables with modified sea urchin-like ZnO for fire warning. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130841.	7.8	5
2	The relation between mixed-potential hydrogen response and electrochemical activities for perovskite oxides. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 130988.	7.8	13
3	Electrochemical Response of Mixed Conducting Perovskite Enables Low-Cost High-Efficiency Hydrogen Sensing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33580-33588.	8.0	14
4	Selective detection of parts-per-billion H ₂ S with Pt-decorated ZnO nanorods. <i>Sensors and Actuators B: Chemical</i> , 2021, 333, 129545.	7.8	35
5	Analysis of factors affecting response for mixed potential gas sensors. <i>Electrochimica Acta</i> , 2021, 379, 138129.	5.2	23
6	Gas sensing properties of asymmetrically reduced Na _{1/2} Bi _{1/2} TiO ₃ based ceramics. <i>Ceramics International</i> , 2021, 48, 556-556.	4.8	0
7	MOF-derived Au-loaded Co ₃ O ₄ porous hollow nanocages for acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130182.	7.8	44
8	Drastically Enhanced Ammonia Sensing of Pt/ZnO Ordered Porous Ultra-Thin Films. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128217.	7.8	36
9	Superior NO ₂ Sensing of MOF-Derived Indium-Doped ZnO Porous Hollow Cages. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37489-37498.	8.0	84
10	Potentiometric hydrogen sensing of ordered SnO ₂ thin films. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128505.	7.8	19
11	Nanostructured SnO ₂ - and ZnO-Based Gas Sensors for Early Warning of Electrical Fires. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2176-2176.	0.0	1
12	Indium-Doped ZnO Porous Cages Derived from ZIF-8 for Ppb-Level NO ₂ Detection. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2065-2065.	0.0	0
13	Performance Tailoring of Mixed-Potential Hydrogen Sensor with Perovskite Oxide Sensing Electrode. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2105-2105.	0.0	0
14	Improving Hydrogen Sensing Performance of TiO ₂ Nanotube Arrays by ZnO Modification. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	16
15	Insights into the CO ₂ Stability-Performance Trade-Off of Antimony-Doped SrFeO ₃ Perovskite Cathode for Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11498-11506.	8.0	36
16	Sensitive and selective detection of plasticizer vapors with modified-SnO ₂ hollow nanofibers for electrical fire warning. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 364-370.	7.8	25
17	Detection of Semi-volatile Plasticizers as a Signature of Early Electrical Fire. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	11
18	Synthesis and enhanced NO ₂ -sensing properties of ZnO-decorated SnO ₂ microspheres. <i>Materials Letters</i> , 2019, 236, 570-573.	2.6	25

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19	One-pot electrospinning and gas-sensing properties of LaMnO ₃ perovskite/SnO ₂ heterojunction nanofibers. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	28
20	Enhanced ethanol gas sensing performance of ZnO nanoflowers decorated with LaMnO ₃ perovskite nanoparticles. Materials Letters, 2018, 216, 196-198.	2.6	36
21	Hierarchical porous hollow SnO ₂ nanofiber sensing electrode for high performance potentiometric H ₂ sensor. Sensors and Actuators B: Chemical, 2018, 268, 456-464.	7.8	38
22	Remarkably enhanced hydrogen sensing of highly-ordered SnO ₂ -decorated TiO ₂ nanotubes. Sensors and Actuators B: Chemical, 2018, 273, 983-990.	7.8	45
23	Fast Response, Highly Sensitive and Selective Mixed-Potential H ₂ Sensor Based on (La, Tj) ETQq1 1 0.784314 rgBT /Over 17218-17225.	8.0	41
24	Asymmetric La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} membrane with reduced concentration polarization prepared by phase-inversion tape casting and warm pressing. Journal of Membrane Science, 2017, 533, 11-18.	8.2	25
25	Enhanced ethanol sensing of Ni-doped SnO ₂ hollow spheres synthesized by a one-pot hydrothermal method. Sensors and Actuators B: Chemical, 2017, 243, 96-103.	7.8	86
26	Highly Responsive and Selective Ethanol Gas Sensor Based on Co ₃ O ₄ -Modified SnO ₂ Nanofibers. Chinese Journal of Chemical Physics, 2017, 30, 474-478.	1.3	9
27	A modelling study of the multiphase leakage flow from pressurised CO ₂ pipeline. Journal of Hazardous Materials, 2016, 306, 286-294.	12.4	34
28	An experimental investigation of supercritical CO ₂ accidental release from a pressurized pipeline. Journal of Supercritical Fluids, 2016, 107, 298-306.	3.2	30
29	A Feasibility Study of using Cosmic Ray Muons to Monitor Supercritical CO ₂ Migration in Geological Formations. Energy Procedia, 2015, 75, 2299-2304.	1.8	1
30	A Model for Predicting Temperature Produced by Upward Spreading Cable Fire under Natural Ventilation. Energy Procedia, 2015, 66, 177-180.	1.8	4
31	Experimental Investigation of CO ₂ Accidental Release from a Pressurised Pipeline. Energy Procedia, 2015, 75, 2221-2226.	1.8	6
32	Structure, Electrical and Oxygen Transport Properties of Fe-Doped SrCoO _{3-δ} Perovskites. Chinese Journal of Chemical Physics, 2015, 28, 189-192.	1.3	4
33	Influence of CO ₂ on Oxygen Surface Exchange Kinetics of Mixed-Conducting Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} Oxide. Chinese Journal of Chemical Physics, 2015, 28, 203-205.	1.3	5
34	A Study of Instabilities in Hydrogen-air Impinging Jet Flames Using Two and Three Dimensional Direct Numerical Simulations. Energy Procedia, 2015, 66, 325-328.	1.8	2
35	Improving the chemical stability of oxygen permeable SrFeO _{3-δ} perovskite in CO ₂ by niobium doping. Solid State Ionics, 2014, 267, 44-48.	2.7	27
36	Phase-inversion tape-casting preparation and significant performance enhancement of Ce _{0.9} Gd _{0.1} O _{1.95-δ} /La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} dual-phase asymmetric membrane for oxygen separation. Materials Letters, 2014, 137, 245-248.	2.6	33

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37	An experimental study on the leakage process of high pressure CO ₂ from a pipeline transport system. , 2014, 4, 777-784.		5
38	Numerical Investigation of the Leakage Flow from a Pressurized CO ₂ Pipeline. Energy Procedia, 2014, 61, 151-154.	1.8	7
39	CO ₂ corrosion and recovery of perovskite-type BaCo _{1-x} Fe _x NbO ₃ membranes. Journal of Membrane Science, 2013, 437, 49-56.	8.2	55
40	CO ₂ -Tolerant and Cobalt-Free SrFe _{0.8} Nb _{0.2} O ₃ Perovskite Membrane for Oxygen Separation. Chemistry of Materials, 2013, 25, 815-817.	6.7	61
41	Oxidation/Reforming Methane Oxidation Processes Based on Dense Tubular La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-d} Membrane Reactor. Asian Journal of Chemistry, 2013, 25, 5765-5768.	0.3	0
42	Oxygen permeation and oxidation states of transition metals in (Fe, Nb)-doped BaCoO ₃ perovskites. Journal of Membrane Science, 2012, 387-388, 17-23.	8.2	35
43	High temperature degradation of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ membranes in atmospheres containing concentrated carbon dioxide. Journal of Membrane Science, 2011, 378, 163-170.	8.2	43
44	Behavior of Ba(Co, Fe, Nb)O ₃ Perovskite in CO ₂ -Containing Atmospheres: Degradation Mechanism and Materials Design. Chemistry of Materials, 2010, 22, 6246-6253.	6.7	180
45	High-temperature compressive creep behaviour of the perovskite-type oxide Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ . Solid State Ionics, 2009, 180, 1564-1568.	2.7	46
46	A novel pulse isotopic exchange technique for rapid determination of the oxygen surface exchange rate of oxide ion conductors. Physical Chemistry Chemical Physics, 2009, 11, 9640.	2.8	111
47	Determination of A-site deficiency in lanthanum manganite by XRD intensity ratio. Journal of Solid State Chemistry, 2008, 181, 700-704.	2.9	15
48	Oxygen permeation through a Ce _{0.8} Sm _{0.2} O ₂ –La _{0.8} Sr _{0.2} CrO ₃ dual-phase composite membrane. Journal of Membrane Science, 2006, 280, 849-855.	8.2	81
49	Stability and oxygen permeation behavior of Ce _{0.8} Sm _{0.2} O ₂ –La _{0.8} Sr _{0.2} CrO ₃ composite membrane under large oxygen partial pressure gradients. Journal of Membrane Science, 2006, 286, 22-25.	8.2	41
50	Oxygen Permeability and Stability of Sr _{0.95} Co _{0.8} Fe _{0.2} O ₃ in a CO ₂ - and H ₂ O-Containing Atmosphere.. ChemInform, 2006, 37, no.	0.0	6
51	Oxygen Permeability and Stability of Sr _{0.95} Co _{0.8} Fe _{0.2} O ₃ in a CO ₂ - and H ₂ O-Containing Atmosphere. Chemistry of Materials, 2005, 17, 5856-5861.	6.7	104