# Fengmin Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7910208/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 47 papers | 1,754 citations | 257357 24 h-index | 265120 42 g-index |
| 47 all docs | 47 docs citations | 47 times ranked | 2041 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nanosheet-Assembled ZnFe<sub>2</sub>O<sub>4</sub> Hollow Microspheres for High-Sensitive Acetone Sensor. ACS Applied Materials & Interfaces, 2015, 7, 15414-15421. | 4.0 | 234 |
| 2 | Double-Shell Architectures of ZnFe<sub>2</sub>O<sub>4</sub> Nanosheets on ZnO Hollow Spheres for High-Performance Gas Sensors. ACS Applied Materials & Interfaces, 2015, 7, 17811-17818. | 4.0 | 127 |
| 3 | Hierarchical flower-like WO3 nanostructures and their gas sensing properties. Sensors and Actuators B: Chemical, 2014, 204, 224-230. | 4.0 | 111 |
| 4 | Hierarchical Assembly of Î±-Fe<sub>2</sub>O<sub>3</sub> Nanorods on Multiwall Carbon Nanotubes as a High-Performance Sensing Material for Gas Sensors. ACS Applied Materials & Interfaces, 2017, 9, 8919-8928. | 4.0 | 108 |
| 5 | Ultrasensitive gas sensor based on hollow tungsten trioxide-nickel oxide (WO3-NiO) nanoflowers for fast and selective xylene detection. Journal of Colloid and Interface Science, 2019, 535, 458-468. | 5.0 | 90 |
| 6 | Mixed potential type acetone sensor using stabilized zirconia and M3V2O8 (M: Zn, Co and Ni) sensing electrode. Sensors and Actuators B: Chemical, 2015, 221, 673-680. | 4.0 | 62 |
| 7 | Highly Enhanced Sensing Properties for ZnO Nanoparticle-Decorated Round-Edged Î±-Fe<sub>2</sub>O<sub>3</sub> Hexahedrons. ACS Applied Materials & Interfaces, 2015, 7, 8743-8749. | 4.0 | 62 |
| 8 | Tripartite Layered Photoanode from Hierarchical Anatase TiO<sub>2</sub> Urchin-Like Spheres and P25: A Candidate for Enhanced Efficiency Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 24150-24156. | 1.5 | 49 |
| 9 | Au<sub>39</sub>Rh<sub>61</sub> Alloy Nanocrystal-Decorated W<sub>18</sub>O<sub>49</sub> for Enhanced Detection of n-Butanol. ACS Sensors, 2019, 4, 2662-2670. | 4.0 | 47 |
| 10 | Highly sensitive detection of Pb2+ and Cu2+ based on ZIF-67/MWCNT/Nafion-modified glassy carbon electrode. Analytica Chimica Acta, 2020, 1124, 166-175. | 2.6 | 46 |
| 11 | Highly sensitive and humidity-independent ethanol sensors based on In<sub>2</sub>O<sub>3</sub> nanoflower/SnO<sub>2</sub> nanoparticle composites. RSC Advances, 2015, 5, 52252-52258. | 1.7 | 42 |
| 12 | Fabrication of Well-Ordered Three-Phase Boundary with Nanostructure Pore Array for Mixed Potential-Type Zirconia-Based NO<sub>2</sub> Sensor. ACS Applied Materials & Interfaces, 2016, 8, 16752-16760. | 4.0 | 41 |
| 13 | High performance mixed-potential type NO2 sensors based on three-dimensional TPB and Co3V2O8 sensing electrode. Sensors and Actuators B: Chemical, 2015, 216, 121-127. | 4.0 | 40 |
| 14 | Template-free synthesis of novel In2O3 nanostructures and their application to gas sensors. Sensors and Actuators B: Chemical, 2013, 185, 32-38. | 4.0 | 39 |
| 15 | Gas sensing with hollow Î±-Fe2O3 urchin-like spheres prepared via template-free hydrothermal synthesis. CrystEngComm, 2012, 14, 8335. | 1.3 | 38 |
| 16 | Mixed-potential type NO sensor using stabilized zirconia and MoO3â€“In2O3 nanocomposites. Ceramics International, 2016, 42, 12503-12507. | 2.3 | 37 |
| 17 | Growth of SnO<sub>2</sub> nanowire arrays by ultrasonic spray pyrolysis and their gas sensing performance. RSC Advances, 2014, 4, 43429-43435. | 1.7 | 36 |
| 18 | Gas sensor based on samarium oxide loaded mulberry-shaped tin oxide for highly selective and sub ppm-level acetone detection. Journal of Colloid and Interface Science, 2018, 531, 74-82. | 5.0 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Selective-detection NO at room temperature on porous ZnO nanostructure by solid-state synthesis method. Journal of Colloid and Interface Science, 2019, 556, 640-649. | 5.0 | 33 |
| 20 | Preparation of silver-loaded titanium dioxide hedgehog-like architecture composed of hundreds of nanorods and its fast response to xylene. Journal of Colloid and Interface Science, 2019, 536, 215-223. | 5.0 | 33 |
| 21 | Sub-ppm YSZ-based mixed potential type acetone sensor utilizing columbite type composite oxide sensing electrode. Sensors and Actuators B: Chemical, 2017, 238, 928-937. | 4.0 | 31 |
| 22 | Direct growth of NiO films on Al2O3 ceramics by electrochemical deposition and its excellent H2S sensing properties. Sensors and Actuators B: Chemical, 2019, 296, 126619. | 4.0 | 31 |
| 23 | Facile synthesis and gas-sensing properties of monodisperse Î±-Fe2O3 discoid crystals. RSC Advances, 2012, 2, 9824. | 1.7 | 29 |
| 24 | Preparation of Ni(OH)<sub>2</sub> nanosheets on Ni foam via a direct precipitation method for a highly sensitive non-enzymatic glucose sensor. RSC Advances, 2015, 5, 53665-53670. | 1.7 | 29 |
| 25 | Synthesis of hierarchical ZnO/ZnFe<sub>2</sub>O<sub>4</sub> nanoforests with enhanced gas-sensing performance toward ethanol. CrystEngComm, 2015, 17, 8683-8688. | 1.3 | 24 |
| 26 | Construction of self-sensitized LiErF4: 0.5% Tm3+@LiYF4 upconversion nanoprobe for trace water sensing. Nano Research, 2020, 13, 2803-2811. | 5.8 | 24 |
| 27 | Mixed potential type acetone sensor based on GDC used for breath analysis. Sensors and Actuators B: Chemical, 2021, 326, 128846. | 4.0 | 24 |
| 28 | Controlled synthesis of hierarchical Sn-doped Î±-Fe2O3 with novel sheaf-like architectures and their gas sensing properties. RSC Advances, 2013, 3, 7112. | 1.7 | 23 |
| 29 | Highly efficiency p-type dye sensitized solar cells based on polygonal star-morphology Cu2O material of photocathodes. Chemical Research in Chinese Universities, 2014, 30, 661-665. | 1.3 | 23 |
| 30 | Hollow cylinder ZnO/SnO2 nanostructures synthesized by ultrasonic spray pyrolysis and their gas-sensing performance. CrystEngComm, 2014, 16, 6135. | 1.3 | 21 |
| 31 | Acetone sensing with a mixed potential sensor based on Ce0.8Gd0.2O1.95 solid electrolyte and Sr2MMoO6 (M: Fe, Mg, Ni) sensing electrode. Sensors and Actuators B: Chemical, 2019, 284, 751-758. | 4.0 | 21 |
| 32 | Triethylamine sensing with a mixed potential sensor based on Ce0.8Gd0.2O1.95 solid electrolyte and La1-xSrxMnO3 (xâ€¯=â€¯0.1, 0.2, 0.3) sensing electrodes. Sensors and Actuators B: Chemical, 2021, 327, 128830. | 4.0 | 21 |
| 33 | Monodisperse TiO2 mesoporous spheres with coreâ€“shell structure: candidate photoanode materials for enhanced efficiency dye sensitized solar cells. RSC Advances, 2014, 4, 23396. | 1.7 | 18 |
| 34 | Machine Learning-Assisted Development of Sensitive Electrode Materials for Mixed Potential-Type NO<sub>2</sub>Gas Sensors. ACS Applied Materials & Interfaces, 2021, 13, 50121-50131. | 4.0 | 16 |
| 35 | Bimetallic PtRu alloy nanocrystal-functionalized flower-like WO3 for fast detection of xylene. Sensors and Actuators B: Chemical, 2022, 351, 130950. | 4.0 | 16 |
| 36 | The enhanced CO gas sensing performance of Pd/SnO<sub>2</sub> hollow sphere sensors under hydrothermal conditions. RSC Advances, 2016, 6, 80455-80461. | 1.7 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Enhanced n-pentanol sensing performance by RuCu alloy nanoparticles decorated SnO2 nanoclusters. Sensors and Actuators B: Chemical, 2022, 351, 130900. | 4.0 | 13 |
| 38 | Novel three-dimensional TiO2 nanomesh synthesized by a one-pot hydrothermal method for application in dye sensitized solar cells. RSC Advances, 2013, 3, 23389. | 1.7 | 11 |
| 39 | 3D TiO<sub>2</sub>/ZnO composite nanospheres as an excellent electron transport anode for efficient dye-sensitized solar cells. RSC Advances, 2016, 6, 51320-51326. | 1.7 | 11 |
| 40 | Enhanced photovoltaic properties of dye-sensitized solar cells using three-component CNF/TiO2/Au heterostructure. Journal of Colloid and Interface Science, 2019, 542, 168-176. | 5.0 | 10 |
| 41 | Highly Selective Mixed Potential Methanol Gas Sensor Based on a Ce<sub>0.8</sub>Gd<sub>0.2</sub>O<sub>1.95</sub> Solid Electrolyte and Au Sensing Electrode. ACS Sensors, 2022, 7, 972-984. | 4.0 | 9 |
| 42 | Photonic Crystal Effects on Upconversion Enhancement of LiErF<sub>4</sub>:0.5%Tm<sup>3+</sup>@LiYF<sub>4</sub> for Noncontact Cholesterol Detection. ACS Applied Materials & Interfaces, 2022, 14, 428-438. | 4.0 | 8 |
| 43 | Understanding the Increasing Trend of Sensor Signal with Decreasing Oxygen Partial Pressure by a Sensing-Reaction Model Based on O<sup>2â€“</sup> Species. ACS Sensors, 2022, 7, 1095-1104. | 4.0 | 7 |
| 44 | Highly sensitive mixed-potential type ethanol sensors based on stabilized zirconia and ZnNb2O6sensing electrode. RSC Advances, 2016, 6, 27197-27204. | 1.7 | 5 |
| 45 | Hierarchical TiO2 flower-spheres with large surface area and high scattering ability: an excellent candidate for high efficiency dye sensitized solar cells. Chemical Research in Chinese Universities, 2015, 31, 841-845. | 1.3 | 4 |
| 46 | Microstructure methane sensor based on Pd-doped SnO<inf>2</inf> nanoparticles. , 2012, , . | | 0 |
| 47 | Doping effect of metal oxide on sensing performance of Pd/Al<inf>2</inf>O<inf>3</inf>-based methane sensor. , 2012, , . | | 0 |