Taro Ueda

List of Publications by Year
in descending order

29 papers	752 citations	471509 17 h-index	580821 25 g-index
30 all docs	30 docs citations	30 times ranked	667 citing authors

#	Article	IF	Citations
1	Semiconductor-type SnO2-based NO2 sensors operated at room temperature under UV-light irradiation. Sensors and Actuators B: Chemical, 2017, 253, 630-640.	7.8	88
2	Effects of Surface Modification of Platinum Electrodes with Gold on Hydrogen-Sensing Properties of Diode-Type Sensors. , 2022, 1, 013602.		64
3	Improved Toluene Response of Mixed-Potential Type YSZ-Based Gas Sensors Using CeO₂-Added Au Electrodes. , 2022, 1, 013604.		64
4	Improving NO[sub 2] Sensitivity by Adding WO[sub 3] during Processing of NiO Sensing-Electrode of Mixed-Potential-Type Zirconia-Based Sensor. Journal of the Electrochemical Society, 2007, 154, J246.	2.9	42
5	Enhancement of methylmercaptan sensing response of WO3 semiconductor gas sensors by gas reactivity and gas diffusivity. Sensors and Actuators B: Chemical, 2018, 273, 826-833.	7.8	39
6	Enhanced sensing response of solid-electrolyte gas sensors to toluene: Role of composite Au/metal oxide sensing electrode. Sensors and Actuators B: Chemical, 2017, 252, 268-276.	7.8	36
7	Effects of Gas Adsorption Properties of an Au-Loaded Porous In₂O₃ Sensor on NO₂-Sensing Properties. ACS Sensors, 2021, 6, 4019-4028.	7.8	33
8	Dependence of NO2 sensitivity on thickness of oxide-sensing electrodes for mixed-potential-type sensor using stabilized zirconia. Ionics, 2007, 12, 331-337.	2.4	32
9	CO-sensing Properties of Potentiometric Gas Sensors Using an Anion-conducting Polymer Electrolyte and Au-loaded Metal Oxide Electrodes. Electrochimica Acta, 2015, 166, 232-243.	5.2	30
10	Microstructural control of porous In2O3 powders prepared by ultrasonic-spray pyrolysis employing self-synthesized polymethylmethacrylate microspheres as a template and their NO2-sensing properties. Sensors and Actuators B: Chemical, 2017, 244, 992-1003.	7.8	30
11	CO-sensing properties of a NASICON-based gas sensor attached with Pt mixed with Bi2O3 as a sensing electrode. Electrochimica Acta, 2015, 155, 8-15.	5.2	28
12	Synergistic Effects of PdO<i>_x</i>â€"CuO<i>_x</i> Loadings on Methyl Mercaptan Sensing of Porous WO₃ Microspheres Prepared by Ultrasonic Spray Pyrolysis. ACS Applied Materials & Interfaces, 2020, 12, 41728-41739.	8.0	28
13	Effects of Pt loading onto SnO2 electrodes on CO-sensing properties and mechanism of potentiometric gas sensors utilizing an anion-conducting polymer electrolyte. Sensors and Actuators B: Chemical, 2019, 300, 127041.	7.8	27
14	Potentiometric CO sensors using anion-conducting polymer electrolyte: Effects of the kinds of noble metal-loaded metal oxides as sensing-electrode materials on CO-sensing properties. Sensors and Actuators B: Chemical, 2019, 287, 42-52.	7.8	26
15	Effects of composition and structure of sensing electrode on NO2 sensing properties of mixed potential-type YSZ-based gas sensors. Sensors and Actuators B: Chemical, 2016, 237, 247-255.	7.8	25
16	Zirconia-based planar NO2 sensor using ultrathin NiO or laminated NiOâ€"Au sensing electrode. Ionics, 2008, 14, 15-25.	2.4	24
17	Potentiometric Carbon Monoxide Sensors Using an Anion-Conducting Polymer Electrolyte and Au-Loaded SnO₂Electrodes. Journal of the Electrochemical Society, 2016, 163, B300-B308.	2.9	24
18	Nanostructured Pr-doped Ceria (PCO) thin films as sensing electrodes in solid-electrolyte type gas sensors with enhanced toluene sensitivity. Sensors and Actuators B: Chemical, 2020, 317, 128037.	7.8	21

#	Article	IF	Citations
19	Enhanced NO2-Sensing Properties of Au-Loaded Porous In2O3 Gas Sensors at Low Operating Temperatures. Chemosensors, 2020, 8, 72.	3.6	19
20	Properties and potential use of biochars from residues of two rice varieties, Japanese Koshihikari and Vietnamese IR50404. Journal of Material Cycles and Waste Management, 2019, 21, 98-106.	3.0	16
21	Amperometric-type NOx sensor based on YSZ electrolyte and La-based perovskite-type oxide sensing electrode. Journal of the Ceramic Society of Japan, 2010, 118, 180-183.	1.1	14
22	Improvement in NO2 Sensing Properties of Semiconductor-Type Gas Sensors by Loading of Au Into Porous In2O3 Powders. Frontiers in Materials, 2019, 6, .	2.4	9
23	A Stable Sensing-Electrode Material in Reducing Atmosphere at High Temperature for Zirconia-Based Amperometric NOx Sensor. Electrochemistry, 2013, 81, 74-76.	1.4	8
24	Enhanced CO Response of NASICON-based Gas Sensors Using Oxide-added Pt Sensing Electrode at Low Temperature Operation. Electrochemistry, 2017, 85, 174-178.	1.4	5
25	Enhanced catalytic activity and thermal stability of lipase bound to oxide nanosheets. RSC Advances, 2018, 8, 20347-20352.	3.6	5
26	Effects of noble-metal loading and ultraviolet-light irradiation on gas-sensing properties of porous indium oxide films at room temperature. Journal of the Ceramic Society of Japan, 2021, 129, 676-682.	1.1	5
27	Toluene-sensing Properties of Mixed-potential Type Yttria-stabilized Zirconia-based Gas Sensors Attached with Thin CeO₂-added Au Electrodes. Analytical Sciences, 2020, 36, 287-290.	1.6	3
28	Effects of catalytic combustion behavior and adsorption/desorption properties on ethanol-sensing characteristics of adsorption/combustion-type gas sensors. Journal of Asian Ceramic Societies, 2021, 9, 1015-1030.	2.3	2
29	Dependence of NO2 sensitivity on thickness of oxide-sensing electrodes for mixed-potential-type sensor using stabilized zirconia. Ionics, 0, , .	2.4	0