

Chen Zhang

List of Publications by Year in descending order

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17
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840776

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times ranked

344
citing authors

#	ARTICLE	IF	CITATIONS
1	High temperature CO ₂ sensing and its cross-sensitivity towards H ₂ and CO gas using calcium doped ZnO thin film coated langasite SAW sensor. Sensors and Actuators B: Chemical, 2019, 301, 126958.	7.8	71
2	High-Temperature Gas Sensors for Harsh Environment Applications: A Review. Clean - Soil, Air, Water, 2019, 47, 1800491.	1.1	39
3	CO ₂ Sensing Behavior of Calcium-Doped ZnO Thin Film: A Study To Address the Cross-Sensitivity of CO ₂ in H ₂ and CO Environment. Langmuir, 2019, 35, 10267-10275.	3.5	27
4	Piezoelectric active sensing system for crack detection in concrete structure. Journal of Civil Structural Health Monitoring, 2016, 6, 129-139.	3.9	24
5	A study on the Langmuir adsorption for quartz crystal resonator based low pressure CO ₂ gas sensor. Measurement: Journal of the International Measurement Confederation, 2018, 124, 286-290.	5.0	23
6	Langasite crystal based pressure sensor with temperature compensation. Sensors and Actuators A: Physical, 2018, 281, 108-116.	4.1	20
7	A Comprehensive Review on Vibration Analysis of Functionally Graded Beams. International Journal of Structural Stability and Dynamics, 2020, 20, 2030002.	2.4	18
8	PZN-PT based smart probe for high temperature fluid viscosity measurements. Measurement: Journal of the International Measurement Confederation, 2016, 94, 753-758.	5.0	13
9	Miniaturized langasite MEMS micro-cantilever beam structured resonator for high temperature gas sensing. Smart Materials and Structures, 2020, 29, 055002.	3.5	12
10	PMN-PT based smart sensing system for viscosity and density measurement. Measurement: Journal of the International Measurement Confederation, 2017, 101, 15-18.	5.0	11
11	Sensitivity analysis of piezo-driven stepped cantilever beams for simultaneous viscosity and density measurement. Smart Materials and Structures, 2019, 28, 065012.	3.5	11
12	Quartz Crystal Microbalance for viscosity measurement with temperature self-compensation. Mechatronics, 2019, 59, 189-198.	3.3	11
13	Langasite-based surface acoustic wave resonator for acetone vapor sensing. Smart Materials and Structures, 2020, 29, 015039.	3.5	11
14	Selective H ₂ sensing using lanthanum doped zinc oxide thin film: A study of temperature dependence H ₂ sensing effect on carrier reversal activity. Journal of Applied Physics, 2020, 128, .	2.5	9
15	SC-Cut Quartz Resonators for Dynamic Liquid Viscosity Measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3616-3623.	3.0	8
16	Sensitivity analysis of multilayered C-axis inclined zigzag zinc oxide thin-film bulk acoustic resonators for CO ₂ concentration monitoring. Mechanics of Advanced Materials and Structures, 2021, 28, 699-708.	2.6	5
17	Measurement of the Second-Order Material Constants of Lanthanum-Gallium Tantalate (LGT) Through Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2271-2276.	3.0	4