

Enrico Verona

List of Publications by Year in descending order

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54
papers

1,789
citations

257450

24
h-index

276875

41
g-index

54
all docs

54
docs citations

54
times ranked

1544
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic investigation of the elastic properties of ZnO films. Applied Physics Letters, 1987, 51, 1889-1891.	3.3	124
2	Surface acoustic wave hydrogen sensor. Sensors and Actuators, 1982, 3, 31-39.	1.7	117
3	Saw sensors. Sensors and Actuators, 1989, 17, 55-66.	1.7	105
4	Detection of odorant molecules via surface acoustic wave biosensor array based on odorant-binding proteins. Biosensors and Bioelectronics, 2013, 41, 328-334.	10.1	87
5	Growth of AlN piezoelectric film on diamond for high-frequency surface acoustic wave devices. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1806-1811.	3.0	82
6	Palladium's surface acoustic wave interaction for hydrogen detection. Applied Physics Letters, 1982, 41, 300-301.	3.3	80
7	Advances in SAW-based gas sensors. Smart Materials and Structures, 1997, 6, 689-699.	3.5	66
8	Brillouin scattering determination of the whole set of elastic constants of a single transparent film of hexagonal symmetry. Journal of Physics Condensed Matter, 1995, 7, 9147-9153.	1.8	65
9	Microbalance chemical sensor based on thin-film bulk acoustic wave resonators. Applied Physics Letters, 2005, 87, 173504.	3.3	65
10	Thin-Film Bulk-Acoustic-Resonator Gas Sensor Functionalized With a Nanocomposite Langmuir-Blodgett Layer of Carbon Nanotubes. IEEE Transactions on Electron Devices, 2008, 55, 1237-1243.	3.0	60
11	Volatile toxic compound detection by surface acoustic wave sensor array coated with chemoselective polymers deposited by laser induced forward transfer: Application to sarin. Sensors and Actuators B: Chemical, 2012, 174, 158-167.	7.8	60
12	Low temperature growth of r.f. reactively planar magnetron-sputtered AlN films. Thin Solid Films, 1995, 259, 154-162.	1.8	58
13	A surface acoustic wave bio-electronic nose for detection of volatile odorant molecules. Biosensors and Bioelectronics, 2015, 67, 516-523.	10.1	58
14	Elastic properties of thin-film palladium for surface acoustic wave (SAW) sensors. Sensors and Actuators B: Chemical, 1995, 23, 203-208.	7.8	39
15	Surface acoustic wave humidity sensor. Sensors and Actuators B: Chemical, 1993, 16, 288-292.	7.8	38
16	Surface acoustic wave humidity sensors: a comparison between different types of sensitive membrane. Smart Materials and Structures, 1997, 6, 707-715.	3.5	38
17	Guided lamb wave electroacoustic devices on micromachined AlN/Al plates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1175-1182.	3.0	38
18	A surface acoustic wave voltage sensor. Sensors and Actuators, 1983, 4, 45-54.	1.7	37

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19	Preparation of surface acoustic wave odor sensors by laser-induced forward transfer. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 369-377.	7.8	37
20	Sezawa wave acoustic humidity sensor based on graphene oxide sensitive film with enhanced sensitivity. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 236-242.	7.8	35
21	Integrated optic sensor for the detection of H ₂ concentrations. <i>Sensors and Actuators B: Chemical</i> , 1992, 7, 685-688.	7.8	31
22	Matrix-assisted pulsed laser evaporation of chemoselective polymers. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 105, 651-659.	2.3	30
23	Nerve agent simulant detection by solidly mounted resonators (SMRs) polymer coated using laser induced forward transfer (LIFT) technique. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 32-39.	7.8	30
24	Organometallic polymer membrane for gas detection applied to a surface acoustic wave sensor. <i>Sensors and Actuators B: Chemical</i> , 1995, 25, 670-672.	7.8	29
25	Acoustic Lamb wave electric field nonlinear interaction in YZLiNbO ₃ plates. <i>Applied Physics Letters</i> , 1985, 46, 25-27.	3.3	24
26	A Shear horizontal surface acoustic wave biosensor for a rapid and specific detection of d-serine. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 1-6.	7.8	24
27	Study of sputtered ZnO/Pd thin films as solid state H ₂ and NH ₃ gas sensors. <i>Thin Solid Films</i> , 1988, 157, 169-174.	1.8	23
28	Highly selective surface acoustic wave e-nose implemented by laser direct writing. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 154-162.	7.8	22
29	Structural and piezoelectric properties of pulsed laser deposited ZnO thin films. <i>Superlattices and Microstructures</i> , 2006, 39, 366-375.	3.1	20
30	Polymer pixel enhancement by laser-induced forward transfer for sensor applications. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 559-565.	2.3	20
31	Growth and characterization of piezoelectric AlN thin films for diamond-based surface acoustic wave devices. <i>Thin Solid Films</i> , 2006, 497, 304-308.	1.8	18
32	p-type ZnO thin films grown by RF plasma beam assisted Pulsed Laser Deposition. <i>Superlattices and Microstructures</i> , 2007, 42, 79-84.	3.1	18
33	Laser-induced forward transfer of focussed ion beam pre-machined donors. <i>Applied Surface Science</i> , 2011, 257, 6650-6653.	6.1	18
34	Tailoring odorant-binding protein coatings characteristics for surface acoustic wave biosensor development. <i>Applied Surface Science</i> , 2014, 302, 250-255.	6.1	18
35	A new surface acoustic wave humidity sensor based on a polyethynylfluoreneol membrane. <i>Sensors and Actuators B: Chemical</i> , 1994, 18, 82-84.	7.8	17
36	A comparative study of DRL-lift and lift on integrated polyisobutylene polymer matrices. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 429-434.	2.3	17

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37	Reactive ion etching characterization of a-SiC: H in CF ₄ /O ₂ plasma. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1995, 29, 176-180.	3.5	16
38	Electroelastic effect in layer acoustic mode propagation along ZnO films on Si substrates. Applied Physics Letters, 1986, 49, 1581-1583.	3.3	15
39	Acoustic love-wave sensor for K ⁺ concentration in H ₂ O solutions. Sensors and Actuators B: Chemical, 1992, 7, 602-605.	7.8	14
40	A study of highly c-axis oriented AlN films for diamond-based surface acoustic wave devices: Bulk structure and surface morphology. Sensors and Actuators A: Physical, 2007, 137, 279-286.	4.1	13
41	Laser annealing of ZnO thin films. Journal of Applied Physics, 1984, 56, 2943-2947.	2.5	12
42	Lamb wave electroacoustic voltage sensor. Journal of Applied Physics, 1985, 58, 3265-3267.	2.5	11
43	Gasoline identifier based on SH ₀ plate acoustic waves. Ultrasonics, 2016, 70, 34-37.	3.9	10
44	Investigation of elastic properties of ZnO films by Brillouin scattering. Journal of Applied Physics, 1989, 65, 1370-1372.	2.5	8
45	Microfabricated chemical sensors. Progress in Solid State Chemistry, 1988, 18, 177-199.	7.2	6
46	Hydrogen detection with surface acoustic transverse waves. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1989, 11, 503-508.	0.4	6
47	Real time acousto-optical spectrum analyzer through unguided light-surface acoustic waves interaction. Optics Communications, 1980, 35, 37-41.	2.1	5
48	Interdigital transducer method of acoustic beam steering for bulk wave acousto-optic Bragg cells. Applied Physics Letters, 1985, 47, 463-465.	3.3	5
49	Nonlinear electroacoustic interaction between a bias electric field and acoustic Lamb modes in LiNbO ₃ plates. Journal of Applied Physics, 1988, 64, 1033-1039.	2.5	5
50	Cu/Pd thin-film thermopile as a temperature and hydrogen sensor. Sensors and Actuators A: Physical, 1990, 22, 631-635.	4.1	4
51	Surface acoustic wave biosensor based on odorant binding proteins deposited by laser induced forward transfer. , 2013, , .		4
52	Structural and acoustic characterization of highly oriented piezoelectric AlN films. , 2001, , .		3
53	<title>Microwave frequency acoustic resonators implemented on monolithic Si/AlN substrates</title>. , 2001, 4407, 423.		3
54	Temperature properties of plate modes in quartz. Acoustical Physics, 2002, 48, 8-11.	1.0	1