

# Tevhit Karacali

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

258  
citations

933410

10  
h-index

996954

15  
g-index

30  
all docs

30  
docs citations

30  
times ranked

308  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel proton-exchange porous silicon membrane production method for $\frac{1}{4}$ DMFCs. Turkish Journal of Chemistry, 2020, 44, 1216-1226.	1.2	0
2	Characterization of electrical transport and properties of an Al/porous Si (PS)/p-Si/Al heterojunction. Journal of Alloys and Compounds, 2019, 797, 859-864.	5.5	3
3	A new approach to modeling TiO <sub>2</sub> -x-based memristors using molecular dynamics simulation. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	3
4	2D photoluminescence mapping of porous silicon using confocal technique. Journal of Optics (India), 2019, 48, 214-219.	1.7	0
5	Nondestructive Optical Characterization of Fabry-Pérot Cavities by Full Spectra Fitting Method. IEEE Photonics Technology Letters, 2018, 30, 1404-1407.	2.5	3
6	Crossover of ion through porous silicon based membrane. , 2018, , .		0
7	Deposition of ZnO thin films by RF&DC magnetron sputtering on silicon and porous-silicon substrates for pyroelectric applications. Sensors and Actuators A: Physical, 2017, 260, 24-28.	4.1	7
8	The influence of annealing temperature and time on the efficiency of pentacene: PTCDI organic solar cells. Results in Physics, 2017, 7, 3444-3448.	4.1	16
9	Microelectrod fabrication for diagnosis and treatment of brain disorders. , 2015, , .		0
10	Characterization of Porous Silicon Fabry-Pérot Optical Sensors for Reflectivity and Transmittivity Measurements. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 174-183.	2.9	7
11	Identification of Gases by Porous Optical Sensors Using Reflectivity Difference and Wavelength Shift. IEEE Photonics Technology Letters, 2015, 27, 596-599.	2.5	5
12	Porous Si Based Al Schottky Structures on p+-Si: A Possible Way for Nano Schottky Fabrication. Electrochimica Acta, 2015, 168, 41-49.	5.2	15
13	Resistive switching of reactive sputtered TiO <sub>2</sub> based memristor in crossbar geometry. Applied Surface Science, 2015, 350, 10-13.	6.1	20
14	Semi-Infinite Reflection Coefficients of Bi-Anisotropic Metamaterial Slabs Including Boundary Effects. IEEE Microwave and Wireless Components Letters, 2015, 25, 283-285.	3.2	7
15	Improving the limit of detection (LOD) of microsensor used in detection of brain diseases via wavelet filter. , 2015, , .		0
16	Reference-Plane-Invariant Effective Thickness and Electromagnetic Property Determination of Isotropic Metamaterials Involving Boundary Effects. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 301-311.	2.9	9
17	Determination of constitutive parameters of homogeneous metamaterial slabs by a novel calibration-independent method. AIP Advances, 2014, 4, 107116.	1.3	11
18	Novel Design of Porous Silicon Based Sensor for Reliable and Feasible Chemical Gas Vapor Detection. Journal of Lightwave Technology, 2013, 31, 295-305.	4.6	27

#	ARTICLE	IF	CITATIONS
19	Study of Structural and Optical Properties of Zinc Oxide Rods Grown on Glasses by Chemical Spray Pyrolysis. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-5.	2.7	11
20	The effect of silicon loss and fabrication tolerance on spectral properties of porous silicon Fabry-Perot cavities in sensing applications. <i>Optics Express</i> , 2012, 20, 22208.	3.4	26
21	Investigation of Q-switched InP-based 1550 nm semiconductor lasers. <i>Optics and Laser Technology</i> , 2012, 44, 1593-1597.	4.6	2
22	Strong white light emission from a processed porous silicon and its photoluminescence mechanism. <i>Journal of Luminescence</i> , 2011, 131, 2100-2105.	3.1	6
23	Optical Properties of ZnO Nanorods on Glass Via Spray Deposition of Solution Containing Zinc Chloride and Thiourea. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 532-536.	2.0	4
24	Anodization of aluminium thin films on p++Si and annihilation of strong luminescence from Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Luminescence</i> , 2010, 130, 157-162.	3.1	6
25	Fabrication of highly reflective gratings in 1.5 $\mu$ m semiconductor lasers using focused ion beam-based etching. <i>Microelectronic Engineering</i> , 2010, 87, 2343-2347.	2.4	4
26	Single and Double Fabry-Perot Structure Based on Porous Silicon for Chemical Sensors. <i>IEEE Sensors Journal</i> , 2009, 9, 1667-1672.	4.7	17
27	Investigation of the switching phenomena in Ga <sub>2</sub> Te <sub>3</sub> single crystals. <i>Journal of Crystal Growth</i> , 2005, 279, 110-113.	1.5	11
28	Theoretical investigation of chirped mirrors in semiconductor lasers. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 33-37.	2.2	3
29	Electrical transport properties of p-GaTe grown by directional freezing method. <i>Semiconductor Science and Technology</i> , 2004, 19, 523-530.	2.0	10
30	Aging of porous silicon and the origin of blue shift. <i>Optics Express</i> , 2003, 11, 1237.	3.4	25