

Tsvetanka Babeva

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

575
citations

13
h-index

22
g-index

69
ext. papers

664
ext. citations

2.4
avg, IF

3.8
L-index

#	Paper	IF	Citations
60	Optical Characterization of Acetone-Sensitive Thin Films of poly(vinyl alcohol)-g-poly(methyl acrylate). <i>Chemistry Proceedings</i> , 2021 , 5, 41		
59	Flexible and Transparent Polymer-Based Optical Humidity Sensor. <i>Sensors</i> , 2021 , 21,	3.8	4
58	Effect of Milling Time on the Sensing Properties of Fly Ash Zeolite Composite Thin Films. <i>Engineering Proceedings</i> , 2021 , 6, 55	0.5	
57	Study of the Effect of Bending Deformation on the Performance of Flexible Polymer Layered Humidity Sensor. <i>Engineering Proceedings</i> , 2021 , 6, 6	0.5	
56	Optical Detection of VOC Vapors Using Nb2O5 Bragg Stack in Transmission Mode. <i>Photonics</i> , 2021 , 8, 399	2.2	1
55	Poly(vinyl alcohol)-based thin films for optical humidity sensing. <i>Journal of Physics: Conference Series</i> , 2020 , 1492, 012040	0.3	4
54	In-Situ Ellipsometric Study of the Optical Properties of LTL-Doped Thin Film Sensors for Copper(II) Ion Detection. <i>Coatings</i> , 2020 , 10, 423	2.9	3
53	Progress in the Utilization of Coal Fly Ash by Conversion to Zeolites with Green Energy Applications. <i>Materials</i> , 2020 , 13,	3.5	12
52	Synthesis and characterization of 2D platinum diselenide. <i>Journal of Physics: Conference Series</i> , 2020 , 1492, 012022	0.3	0
51	Amphiphilic Poly(vinyl Alcohol) Copolymers Designed for Optical Sensor Applications Synthesis and Properties. <i>Coatings</i> , 2020 , 10, 460	2.9	7
50	All niobia Bragg stacks for optical sensing of vapors. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	5
49	Sol-gel tantalum pentoxide thin films with tunable refractive index for optical sensing applications. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	1
48	The Influence of Annealing on Optical and Humidity Sensing Properties of Poly(Vinyl Alcohol-Co-Vinyl Acetal) Thin Films. <i>Proceedings (mdpi)</i> , 2020 , 42, 16	0.3	4
47	Processing of high-grade zeolite nanocomposites from solid fuel combustion by-products as critical raw materials substitutes. <i>Manufacturing Review</i> , 2020 , 7, 22	1.4	3
46	Improvement of the photoinduced birefringence in PAZO azopolymer doped with ZnO via electrospray deposition. <i>Journal of Physics: Conference Series</i> , 2020 , 1492, 012041	0.3	
45	Surface and Morphological Features of ZrO ₂ Sol-Gel Coatings Obtained by Polymer Modified Solution 2020 ,		2
44	Morphological features and optical properties of nanosized ZrO ₂ films prepared by sol-gel spin coating. <i>Journal of Physics: Conference Series</i> , 2020 , 1492, 012024	0.3	

43	Polymer Top-Covered Bragg Reflectors as Optical Humidity Sensors. <i>Proceedings (mdpi)</i> , 2019 , 3, 12	0.3	2
42	Zeolites from fly ash embedded in a thin niobium oxide matrix for optical and sensing applications. <i>Journal of Physics: Conference Series</i> , 2019 , 1186, 012024	0.3	5
41	Phase characterization and ethanol adsorption in TiO ₂ nanotubes anodically grown on Ti6Al4V alloy substrates. <i>Journal of Alloys and Compounds</i> , 2019 , 798, 394-402	5.7	5
40	Aluminum-doped zinc oxide thin films deposited by electrospray method. <i>Optical Materials</i> , 2019 , 89, 390-395	3.3	7
39	Optical Sensing of Humidity Using Polymer Top-Covered Bragg Stacks and Polymer/Metal Thin Film Structures. <i>Nanomaterials</i> , 2019 , 9,	5.4	2
38	Generating porosity in metal oxides thin films through introduction of polymer micelles. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	5
37	Atomic layer deposition prepared Al-doped ZnO for liquid crystal displays applications. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	16
36	Optical and sensing properties of sol-gel derived vanadium pentoxide thin films with porous and dense structures. <i>Journal of Physics: Conference Series</i> , 2018 , 992, 012038	0.3	1
35	Influence of ZnCl ₂ concentration on the structural and optical properties of electrochemically deposited nanostructured ZnO. <i>Applied Surface Science</i> , 2018 , 456, 69-74	6.7	5
34	Organic framework engineering in mesoporous Nb ₂ O ₅ thin films used as an active medium for organic vapors sensing 2018 ,		1
33	Triblock copolymer micelles as templates for preparation of mesoporous niobia thin films. <i>Journal of Physics: Conference Series</i> , 2018 , 992, 012037	0.3	4
32	Influence of Macromolecular Architecture on the Optical and Humidity-Sensing Properties of Poly(-Dimethylacrylamide)-Based Block Copolymers. <i>Polymers</i> , 2018 , 10,	4.5	1
31	Effect of Substrate Temperature on the Microstructural, Morphological, and Optical Properties of Electro sprayed ZnO Thin Films. <i>Advances in Condensed Matter Physics</i> , 2018 , 2018, 1-7	1	6
30	Optical fiber- Ta_2O_5 waveguide coupler covered with hydrophobic zeolite film for vapor sensing. <i>Sensors and Actuators B: Chemical</i> , 2017 , 248, 359-366	8.5	6
29	Structural and optical properties of LuVO ₄ single crystals. <i>Journal of Physics: Conference Series</i> , 2017 , 794, 012029	0.3	5
28	Thin films from hydrophilic poly(N,N-dimethyl acrylamide) copolymers as optical indicators for humidity. <i>Journal of Physics: Conference Series</i> , 2017 , 794, 012022	0.3	2
27	Color sensing of humidity using thin films of hydrophilic cationic copolymers 2017 ,		3
26	One-dimensional PMMA/ Ta_2O_5 photonic crystals used as color indicators of chloroform vapors. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	7

25	Optical Properties of Sol-Gel Nb ₂ O ₅ Films with Tunable Porosity for Sensing Applications. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-8	1	15
24	Effect of zeolite nanoparticles on the optical properties of diacetone acrylamide-based photopolymer. <i>Optical Materials</i> , 2014 , 37, 181-187	3.3	11
23	Zeolite films as building blocks for antireflective coatings and vapor responsive Bragg stacks. <i>Dalton Transactions</i> , 2014 , 43, 8868-76	4.3	18
22	Preparation and characterization of mesoporous Nb ₂ O ₅ films for sensing applications. <i>Journal of Physics: Conference Series</i> , 2014 , 558, 012042	0.3	7
21	Vapor responsive one-dimensional photonic crystals from zeolite nanoparticles and metal oxide films for optical sensing. <i>Sensors</i> , 2014 , 14, 12207-18	3.8	33
20	Optical characterization of sol-gel derived Nb ₂ O ₅ thin films. <i>Optics and Laser Technology</i> , 2014 , 58, 114-118	1.8	49
19	Optical and holographic properties of nano-sized As ₂ S ₃ films. <i>Optics and Lasers in Engineering</i> , 2012 , 50, 838-843	4.6	4
18	One dimensional photonic crystals from As ₂ S ₃ and PMMA films for photonic and sensor applications. <i>Journal of Physics: Conference Series</i> , 2012 , 398, 012025	0.3	1
17	Tunable Bragg stacks from sol-gel derived Ta ₂ O ₅ and MEL zeolite films. <i>Journal of Physics: Conference Series</i> , 2012 , 398, 012026	0.3	3
16	Nanosized MEL zeolite and GeSe ₂ chalcogenide layers as functional building blocks of tunable Bragg stacks. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18136		8
15	Modelling Two-Dimensional Photopolymer Patterns Produced with Multiple-Beam Holography. <i>Mathematics in Industry</i> , 2012 , 365-371	0.2	
14	Study of the photoinduced surface relief modulation in photopolymers caused by illumination with a Gaussian beam of light. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 124011	1.7	7
13	Multilayer As ₂ Se ₃ /GeS ₂ quarter wave structures for photonic applications. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 505103	3	17
12	Two-way diffusion model for short-exposure holographic grating formation in acrylamide-based photopolymer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 197	1.7	51
11	Optical Properties of Photopolymer Layers Doped with Aluminophosphate Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16767-16775	3.8	31
10	Investigation of the light induced redistribution of zeolite Beta nanoparticles in an acrylamide-based photopolymer. <i>Journal of Optics</i> , 2009 , 11, 024016		16
9	Optical properties of silica MFI doped acrylamide-based photopolymer. <i>Journal of Optics</i> , 2009 , 11, 024015		11
8	Method for characterization of diffusion properties of photopolymerisable systems. <i>Optics Express</i> , 2008 , 16, 8487-97	3.3	23

7	Reflectance spectra and refractive index of a Nd:YAG laser-oxidized Si surface. <i>Materials Chemistry and Physics</i> , 2005 , 89, 316-320	4.4	9
6	Optical properties of $(Al_2O_3)_x(TiO_2)_{1-x}$ films deposited by the sol-gel method. <i>Vacuum</i> , 2004 , 76, 219-223	3.7	16
5	Photoinduced changes in the optical properties of obliquely deposited a-As ₂ S ₃ thin films. <i>Vacuum</i> , 2002 , 69, 395-398	3.7	7
4	Photometric methods for determining the optical constants and the thicknesses of thin absorbing films: selection of a combination of photometric quantities on the basis of error analysis. <i>Applied Optics</i> , 2001 , 40, 2675-81	1.7	9
3	Photometric methods for determining the optical constants and the thicknesses of thin absorbing films: criteria for precise and unambiguous determination of n, k, and d in a wide spectral range. <i>Applied Optics</i> , 2001 , 40, 2682-6	1.7	12
2	Optical properties of phase-change optical disks with Sb _x Se _{100-x} films. <i>Vacuum</i> , 2000 , 58, 496-501	3.7	14
1	Analysis of errors in thin-film optical parameters derived from spectrophotometric measurements at normal light incidence. <i>Applied Optics</i> , 1998 , 37, 4260-7	1.7	71