## Tsvetanka Babeva

## List of Publications by Citations

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#	Paper	IF	Citations
60	Analysis of errors in thin-film optical parameters derived from spectrophotometric measurements at normal light incidence. <i>Applied Optics</i> , <b>1998</b> , 37, 4260-7	1.7	71
59	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> , <b>2010</b> , 27, 197	1.7	51
58	Optical characterization of solgel derived Nb2O5 thin films. <i>Optics and Laser Technology</i> , <b>2014</b> , 58, 114	-14.8	49
57	Vapor responsive one-dimensional photonic crystals from zeolite nanoparticles and metal oxide films for optical sensing. <i>Sensors</i> , <b>2014</b> , 14, 12207-18	3.8	33
56	Optical Properties of Photopolymer Layers Doped with Aluminophosphate Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 16767-16775	3.8	31
55	Method for characterization of diffusion properties of photopolymerisable systems. <i>Optics Express</i> , <b>2008</b> , 16, 8487-97	3.3	23
54	Zeolite films as building blocks for antireflective coatings and vapor responsive Bragg stacks. <i>Dalton Transactions</i> , <b>2014</b> , 43, 8868-76	4.3	18
53	Multilayer As2Se3/GeS2quarter wave structures for photonic applications. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 505103	3	17
52	Atomic layer deposition prepared Al-doped ZnO for liquid crystal displays applications. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1	2.4	16
51	Investigation of the light induced redistribution of zeolite Beta nanoparticles in an acrylamide-based photopolymer. <i>Journal of Optics</i> , <b>2009</b> , 11, 024016		16
50	Optical properties of (Al2O3)x(TiO2)1☑ films deposited by the solਊel method. <i>Vacuum</i> , <b>2004</b> , 76, 219-2	<b>23</b> .7	16
49	Optical Properties of Sol-Gel Nb2O5Films with Tunable Porosity for Sensing Applications. <i>Advances in Condensed Matter Physics</i> , <b>2015</b> , 2015, 1-8	1	15
48	Optical properties of phase-change optical disks with SbxSe100⊠ films. <i>Vacuum</i> , <b>2000</b> , 58, 496-501	3.7	14
47	Progress in the Utilization of Coal Fly Ash by Conversion to Zeolites with Green Energy Applications. <i>Materials</i> , <b>2020</b> , 13,	3.5	12
46	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> , <b>2001</b> , 40, 2682-6	1.7	12
45	Effect of zeolite nanoparticles on the optical properties of diacetone acrylamide-based photopolymer. <i>Optical Materials</i> , <b>2014</b> , 37, 181-187	3.3	11
44	Optical properties of silica MFI doped acrylamide-based photopolymer. <i>Journal of Optics</i> , <b>2009</b> , 11, 024	1015	11

## (2020-2005)

43	Reflectance spectra and refractive index of a Nd:YAG laser-oxidized Si surface. <i>Materials Chemistry and Physics</i> , <b>2005</b> , 89, 316-320	4.4	9	
42	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> , <b>2001</b> , 40, 2675-81	1.7	9	
41	Nanosized MEL zeolite and GeSe2 chalcogenide layers as functional building blocks of tunable Bragg stacks. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18136		8	
40	Aluminum-doped zinc oxide thin films deposited by electrospray method. <i>Optical Materials</i> , <b>2019</b> , 89, 390-395	3.3	7	
39	Amphiphilic Poly(vinyl Alcohol) Copolymers Designed for Optical Sensor Applications Bynthesis and Properties. <i>Coatings</i> , <b>2020</b> , 10, 460	2.9	7	
38	Preparation and characterization of mesoporous Nb2O5 films for sensing applications. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 558, 012042	0.3	7	
37	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> , <b>2010</b> , 12, 124011	1.7	7	
36	Photoinduced changes in the optical properties of obliquely deposited a-As2S3 thin films. <i>Vacuum</i> , <b>2002</b> , 69, 395-398	3.7	7	
35	One-dimensional PMMAI/2O5 photonic crystals used as color indicators of chloroform vapors. <i>Optical and Quantum Electronics</i> , <b>2016</b> , 48, 1	2.4	7	
34	Optical fiber Ta 2O5 waveguide coupler covered with hydrophobic zeolite film for vapor sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 248, 359-366	8.5	6	
33	Effect of Substrate Temperature on the Microstructural, Morphological, and Optical Properties of Electrosprayed ZnO Thin Films. <i>Advances in Condensed Matter Physics</i> , <b>2018</b> , 2018, 1-7	1	6	
32	Structural and optical properties of LuVO4 single crystals. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 794, 012029	0.3	5	
31	Zeolites from fly ash embedded in a thin niobium oxide matrix for optical and sensing applications. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1186, 012024	0.3	5	
30	Phase characterization and ethanol adsorption in TiO2 nanotubes anodically grown on Ti6Al4V alloy substrates. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 798, 394-402	5.7	5	
29	All niobia Bragg stacks for optical sensing of vapors. Optical and Quantum Electronics, 2020, 52, 1	2.4	5	
28	Generating porosity in metal oxides thin films through introduction of polymer micelles. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1	2.4	5	
27	Influence of ZnCl2 concentration on the structural and optical properties of electrochemically deposited nanostructured ZnO. <i>Applied Surface Science</i> , <b>2018</b> , 456, 69-74	6.7	5	
26	Poly(vinyl alcohol)-based thin films for optical humidity sensing. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1492, 012040	0.3	4	

25	Optical and holographic properties of nano-sized As2S3 films. <i>Optics and Lasers in Engineering</i> , <b>2012</b> , 50, 838-843	4.6	4
24	The Influence of Annealing on Optical and Humidity Sensing Properties of Poly(Vinyl Alcohol-Co-Vinyl Acetal) Thin Films. <i>Proceedings (mdpi)</i> , <b>2020</b> , 42, 16	0.3	4
23	Flexible and Transparent Polymer-Based Optical Humidity Sensor. Sensors, 2021, 21,	3.8	4
22	Triblock copolymer micelles as templates for preparation of mesoporous niobia thin films. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 992, 012037	0.3	4
21	In-Situ Ellipsometric Study of the Optical Properties of LTL-Doped Thin Film Sensors for Copper(II) Ion Detection. <i>Coatings</i> , <b>2020</b> , 10, 423	2.9	3
20	Color sensing of humidity using thin films of hydrophilic cationic opolymers 2017,		3
19	Tunable Bragg stacks from sol-gel derived Ta2O5and MEL zeolite films. <i>Journal of Physics:</i> Conference Series, <b>2012</b> , 398, 012026	0.3	3
18	Processing of high-grade zeolite nanocomposites from solid fuel combustion by-products as critical raw materials substitutes. <i>Manufacturing Review</i> , <b>2020</b> , 7, 22	1.4	3
17	Polymer Top-Covered Bragg Reflectors as Optical Humidity Sensors. <i>Proceedings (mdpi)</i> , <b>2019</b> , 3, 12	0.3	2
16	Thin films from hydrophilic poly(N,N-dimethyl acrylamide) copolymers as optical indicators for humidity. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 794, 012022	0.3	2
15	Optical Sensing of Humidity Using Polymer Top-Covered Bragg Stacks and Polymer/Metal Thin Film Structures. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	2
14	Surface and Morphological Features of ZrO<sub>2</sub> Sol-Gel Coatings Obtained by Polymer Modified Solution <b>2020</b> ,		2
13	Optical and sensing properties of sol-gel derived vanadium pentoxide thin films with porous and dense structures. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 992, 012038	0.3	1
12	One dimensional photonic crystals from As2S3and PMMA films for photonic and sensor applications. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 398, 012025	0.3	1
11	Organic framework engineering in mesoporous Nb2O5 thin films used as an active medium for organic vapors sensing <b>2018</b> ,		1
10	Solgel tantalum pentoxide thin films with tunable refractive index for optical sensing applications. <i>Optical and Quantum Electronics</i> , <b>2020</b> , 52, 1	2.4	1
9	Influence of Macromolecular Architecture on the Optical and Humidity-Sensing Properties of Poly(,-Dimethylacrylamide)-Based Block Copolymers. <i>Polymers</i> , <b>2018</b> , 10,	4.5	1
8	Optical Detection of VOC Vapors Using Nb2O5 Bragg Stack in Transmission Mode. <i>Photonics</i> , <b>2021</b> , 8, 399	2.2	1

## LIST OF PUBLICATIONS

7	Synthesis and characterization of 2D platinum diselenide. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1492, 012022	0.3	О
6	Optical Characterization of Acetone-Sensitive Thin Films of poly(vinyl alcohol)-g-poly(methyl acrylate). <i>Chemistry Proceedings</i> , <b>2021</b> , 5, 41		
5	Modelling Two-Dimensional Photopolymer Patterns Produced with Multiple-Beam Holography. <i>Mathematics in Industry</i> , <b>2012</b> , 365-371	0.2	
4	Improvement of the photoinduced birefringence in PAZO azopolymer doped with ZnO via electrospray deposition. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1492, 012041	0.3	
3	Morphological features and optical properties of nanosized ZrO2 films prepared by sol-gel spin coating. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1492, 012024	0.3	
2	Effect of Milling Time on the Sensing Properties of Fly Ash Zeolite Composite Thin Films. <i>Engineering Proceedings</i> , <b>2021</b> , 6, 55	0.5	
1	Study of the Effect of Bending Deformation on the Performance of Flexible Polymer Layered Humidity Sensor. <i>Engineering Proceedings</i> , <b>2021</b> , 6, 6	0.5	