

# Yaroslav Bobytskyy

## List of Publications by Year in descending order

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59  
papers

357  
citations

1039880

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h-index

839398

18  
g-index

60  
all docs

60  
docs citations

60  
times ranked

449  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic Degradation of 4,4'-Isopropylidenebis(2,6-dibromophenol) on Sulfur-Doped Nano TiO <sub>2</sub> . Materials, 2022, 15, 361.	1.3	9
2	Photocatalytic Degradation of 4,4'-Isopropylidenebis(2,6-dibromophenol) on Magnetite Catalysts vs. Ozonolysis Method: Process Efficiency and Toxicity Assessment of Disinfection By-Products. International Journal of Molecular Sciences, 2022, 23, 3438.	1.8	1
3	Features of the Resonance in a Rectangular Dielectric Surface-Relief Gratings Illuminated with a Limited Cross Section Gaussian Beam. Nanomaterials, 2022, 12, 72.	1.9	1
4	Spectral and Angular Characteristics of the High-Contrast Dielectric Grating under the Resonant Interaction of a Plane Wave and a Gaussian Beam. Materials, 2022, 15, 3529.	1.3	0
5	Resonance Analysis of a Surface Plasmon-Polariton Wave in a Prismatic Structure with a Limited Cross Section of a Test Beam. Plasmonics, 2021, 16, 131-138.	1.8	1
6	Functionalization of Polycaprolactone Electrospun Osteoplastic Scaffolds with Fluorapatite and Hydroxyapatite Nanoparticles: Biocompatibility Comparison of Human Versus Mouse Mesenchymal Stem Cells. Materials, 2021, 14, 1333.	1.3	12
7	Diffraction of a Gaussian Beam with Limited cross Section by a Volume Phase Grating under Waveguide Mode Resonance. Materials, 2021, 14, 2252.	1.3	2
8	Size-Dependent Localized Surface Plasmon Resonance of Large Triangular Ag Nanoprisms. , 2021, , .		0
9	Synthesis of Micro-Spikes and Herringbones Structures by Femtosecond Laser Pulses on a Titanium Plate—A New Material for Water Organic Pollutants Degradation. Materials, 2021, 14, 5556.	1.3	2
10	Surface-localized plasmon resonance in a system of randomly arranged gold nanorods on a dielectric substrate. Ukrainian Journal of Physical Optics, 2021, 22, 69-82.	9.7	2
11	The method of digital holographic interferometry for research of dental implants. , 2020, , .		0
12	Comparison of the Optical Planar Waveguide Sensors™ Characteristics Based on Guided-Mode Resonance. Symmetry, 2020, 12, 1315.	1.1	7
13	Photocatalytic Properties of Metal-Semiconductor Nanosystems. , 2020, , .		0
14	Characteristics of the Surface Plasmon Polariton Resonance in a Metal Grating, as a Sensitive Element of Refractive Index Change. Materials, 2020, 13, 1882.	1.3	4
15	Efficient NIR energy conversion of plasmonic silver nanostructures fabricated with the laser-assisted synthetic approach for endodontic applications. RSC Advances, 2020, 10, 38861-38872.	1.7	8
16	Surface Plasmon Polariton Resonance Grating-Based Sensors Elements. Springer Proceedings in Physics, 2020, , 309-318.	0.1	0
17	Resonance Excitation Conditions of the Luminescence in the Layered Structure with a Gain Layer. , 2019, , .		0
18	Alternative Approach for Fighting Bacteria and Fungi: Use of Modified Fluorapatite. Journal of Biomedical Nanotechnology, 2019, 15, 848-855.	0.5	10

#	ARTICLE	IF	CITATIONS
19	Spectral Characteristics of the Titanium Dioxide-Silver Nanoshells Under Localized Surface Plasmon Resonance. , 2019, , .		3
20	Properties of Planar Waveguide With Gain (Absorption), Applied on a Glass Prism. , 2019, , .		0
21	The temperature impact on the characteristics of the surface plasmon resonance sensors element. Optik, 2019, 192, 162969.	1.4	9
22	Surface Plasmon Polariton Resonance Excitation by Grating on the Metal Substrate. , 2019, , .		0
23	Comparison of Spectral Characteristics of TiO <sub>2</sub> @Ag and Ag@TiO <sub>2</sub> Core-Shell Nanoparticles. , 2019, , .		1
24	Tunable Color Filter Based on Optomechanical Plasmonic Device. , 2019, , .		0
25	Method for the Formation of a Diffraction Grating on the Semiconductors Surfaces. , 2019, , .		0
26	Diffraction Analysis of Finite Cross-Section Light Beam on Grating with Normal Incidence. , 2019, , .		0
27	Optimization and fabrication of the gold-coated GaAs diffraction gratings for surface plasmon resonance sensors. Optik, 2018, 158, 535-540.	1.4	9
28	Three-step interferometric method with blind phase shifts by use of interframe correlation between interferograms. Optics and Lasers in Engineering, 2018, 105, 27-34.	2.0	19
29	Numerical Analysis of Gradient Planar Waveguides in Frequency Domain. , 2018, , .		1
30	Improvement of the Fourier Expansion of the Electric Field Method for the Analysis of Reflectance by the Multilayered Structures. , 2018, , .		0
31	Properties of Metal/Dielectric/Metal and Dielectric/Metal/Dielectric Nanowaveguide Structures. , 2018, , .		0
32	Optimization of Recording Technology of the Surface Relief Diffraction Gratings on Base of GaAs. , 2018, , .		0
33	The Study of the Activation of Antibacterial Activity of Silver Nanoparticles by Laser Radiation. , 2018, , .		0
34	Analytical approximations of the noble metals dielectric permittivity. , 2018, , .		5
35	Spectral properties of TiO <sub>2</sub> -Ag nanoshells with different shapes for biomedical applications. , 2017, , .		7
36	Structural, physical and antibacterial properties of pristine and Ag <sup>+</sup> doped fluoroapatite nanomaterials. Advances in Applied Ceramics, 2017, 116, 108-117.	0.6	6

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37	Simulation study of environmentally friendly quantum-dot-based photovoltaic windows. Journal of Materials Chemistry C, 2017, 5, 11790-11797.	2.7	8
38	Deformation sensing with a multimode POF using speckle correlation processing method. Opto-electronics Review, 2017, 25, 19-23.	2.4	5
39	Optimization of the grating-based structures for the efficient SERS substrates. , 2017, , .		4
40	3D scanner with modulation of light intensity. , 2017, , .		0
41	Modified RCWA method for studying the resonance diffraction phenomena on metal gratings. , 2017, , .		1
42	Algorithm for automated diagnosis of object technical state with multimode fiber sensor. , 2017, , .		1
43	Shape effect of silver nanoparticles on plasmon properties of DLC: Ag nanocomposites. , 2016, , .		3
44	Laser curing of inkjet printed strain gauge structures. , 2016, , .		4
45	Synthesis, Characterization, and Photocatalytic Properties of Sulfur- and Carbon-Codoped TiO <sub>2</sub> Nanoparticles. Nanoscale Research Letters, 2016, 11, 140.	3.1	65
46	An experimental study of utilizing multimode polymer fiber for load detection. , 2016, , .		0
47	Electrical sintering of inkjet printed sensor structures on polyimide substrate. , 2016, , .		6
48	Annealing Effects on Structure and Optical Properties of Diamond-Like Carbon Films Containing Silver. Nanoscale Research Letters, 2016, 11, 146.	3.1	37
49	Toward cadmium-free spectral down-shifting converters for photovoltaic applications. Solar Energy Materials and Solar Cells, 2016, 151, 52-59.	3.0	13
50	Spectroellipsometric characterization and modeling of plasmonic diamond-like carbon nanocomposite films with embedded Ag nanoparticles. Nanoscale Research Letters, 2015, 10, 157.	3.1	21
51	Modelling of spectral down-converter based on cadmium-free quantum dots for photovoltaics. , 2015, , .		1
52	Using a multimode polymer optical fiber as a high sensitivity strain sensor. , 2014, , .		1
53	Guide-mode resonance characteristics of periodic structure on base of diamond-like carbon film. Optics Communications, 2013, 301-302, 1-6.	1.0	32
54	Numerical implementation of the S-matrix algorithm for modeling of relief diffraction gratings. Journal of Modern Optics, 2013, 60, 1781-1788.	0.6	15

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55	Low-energy pulsed laser treatment of silver nanoparticles for interconnects fabrication by ink-jet method. <i>Microelectronic Engineering</i> , 2011, 88, 318-321.	1.1	21
56	Interference Filters: Tree-Component Dielectric Systems. , 2006, , .		0
57	Analysis of energy-band structure of 1D and 2D photonic crystals by the method of coupled waves. , 2005, , .		0
58	The photothermal method for testing of parameters of thin-film coatings. , 0, , .		0
59	Influence of optical radiation on the silver nanoparticles formation. <i>Applied Nanoscience (Switzerland)</i> , 0, , 1.	1.6	0