

Yaroslav Bobytskyy

List of Publications by Year in descending order

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59
papers

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citations

1039880

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all docs

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docs citations

60
times ranked

449
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Characterization, and Photocatalytic Properties of Sulfur- and Carbon-Codoped TiO ₂ Nanoparticles. <i>Nanoscale Research Letters</i> , 2016, 11, 140.	3.1	65
2	Annealing Effects on Structure and Optical Properties of Diamond-Like Carbon Films Containing Silver. <i>Nanoscale Research Letters</i> , 2016, 11, 146.	3.1	37
3	Guide-mode resonance characteristics of periodic structure on base of diamond-like carbon film. <i>Optics Communications</i> , 2013, 301-302, 1-6.	1.0	32
4	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
5	Spectroellipsometric characterization and modeling of plasmonic diamond-like carbon nanocomposite films with embedded Ag nanoparticles. <i>Nanoscale Research Letters</i> , 2015, 10, 157.	3.1	21
6	Three-step interferometric method with blind phase shifts by use of interframe correlation between interferograms. <i>Optics and Lasers in Engineering</i> , 2018, 105, 27-34.	2.0	19
7	Numerical implementation of the S-matrix algorithm for modeling of relief diffraction gratings. <i>Journal of Modern Optics</i> , 2013, 60, 1781-1788.	0.6	15
8	Toward cadmium-free spectral down-shifting converters for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2016, 151, 52-59.	3.0	13
9	Functionalization of Polycaprolactone Electrospun Osteoplastic Scaffolds with Fluorapatite and Hydroxyapatite Nanoparticles: Biocompatibility Comparison of Human Versus Mouse Mesenchymal Stem Cells. <i>Materials</i> , 2021, 14, 1333.	1.3	12
10	Alternative Approach for Fighting Bacteria and Fungi: Use of Modified Fluorapatite. <i>Journal of Biomedical Nanotechnology</i> , 2019, 15, 848-855.	0.5	10
11	Optimization and fabrication of the gold-coated GaAs diffraction gratings for surface plasmon resonance sensors. <i>Optik</i> , 2018, 158, 535-540.	1.4	9
12	The temperature impact on the characteristics of the surface plasmon resonance sensors element. <i>Optik</i> , 2019, 192, 162969.	1.4	9
13	Photocatalytic Degradation of 4,4'-Isopropylidenebis(2,6-dibromophenol) on Sulfur-Doped Nano TiO ₂ . <i>Materials</i> , 2022, 15, 361.	1.3	9
14	Simulation study of environmentally friendly quantum-dot-based photovoltaic windows. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11790-11797.	2.7	8
15	Efficient NIR energy conversion of plasmonic silver nanostructures fabricated with the laser-assisted synthetic approach for endodontic applications. <i>RSC Advances</i> , 2020, 10, 38861-38872.	1.7	8
16	Spectral properties of TiO ₂ -Ag nanoshells with different shapes for biomedical applications. , 2017, , .		7
17	Comparison of the Optical Planar Waveguide Sensors™ Characteristics Based on Guided-Mode Resonance. <i>Symmetry</i> , 2020, 12, 1315.	1.1	7
18	Electrical sintering of inkjet printed sensor structures on polyimide substrate. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
19	Structural, physical and antibacterial properties of pristine and Ag ⁺ doped fluoroapatite nanomaterials. <i>Advances in Applied Ceramics</i> , 2017, 116, 108-117.	0.6	6
20	Deformation sensing with a multimode POF using speckle correlation processing method. <i>Opto-electronics Review</i> , 2017, 25, 19-23.	2.4	5
21	Analytical approximations of the noble metals dielectric permittivity. , 2018, , .		5
22	Laser curing of inkjet printed strain gauge structures. , 2016, , .		4
23	Optimization of the grating-based structures for the efficient SERS substrates. , 2017, , .		4
24	Characteristics of the Surface Plasmonâ€”Polariton Resonance in a Metal Grating, as a Sensitive Element of Refractive Index Change. <i>Materials</i> , 2020, 13, 1882.	1.3	4
25	Shape effect of silver nanoparticles on plasmon properties of DLC: Ag nanocomposites. , 2016, , .		3
26	Spectral Characteristics of the Titanium Dioxide-Silver Nanoshells Under Localized Surface Plasmon Resonance. , 2019, , .		3
27	Diffraction of a Gaussian Beam with Limited cross Section by a Volume Phase Grating under Waveguide Mode Resonance. <i>Materials</i> , 2021, 14, 2252.	1.3	2
28	Synthesis of Micro-Spikes and Herringbones Structures by Femtosecond Laser Pulses on a Titanium Plateâ€”A New Material for Water Organic Pollutants Degradation. <i>Materials</i> , 2021, 14, 5556.	1.3	2
29	Surface-localized plasmon resonance in a system of randomly arranged gold nanorods on a dielectric substrate. <i>Ukrainian Journal of Physical Optics</i> , 2021, 22, 69-82.	9.7	2
30	Using a multimode polymer optical fiber as a high sensitivity strain sensor. , 2014, , .		1
31	Modelling of spectral down-converter based on cadmium-free quantum dots for photovoltaics. , 2015, , .		1
32	Modified RCWA method for studying the resonance diffraction phenomena on metal gratings. , 2017, , .		1
33	Algorithm for automated diagnosis of object technical state with multimode fiber sensor. , 2017, , .		1
34	Numerical Analysis of Gradient Planar Waveguides in Frequency Domain. , 2018, , .		1
35	Comparison of Spectral Characteristics of TiO ₂ @Ag and Ag@TiO ₂ Core-Shell Nanoparticles. , 2019, , .		1
36	Resonance Analysis of a Surface Plasmon-Polariton Wave in a Prismatic Structure with a Limited Cross Section of a Test Beam. <i>Plasmonics</i> , 2021, 16, 131-138.	1.8	1

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37	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
38	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
39	Analysis of energy-band structure of 1D and 2D photonic crystals by the method of coupled waves. , 2005, , .		0
40	The photothermal method for testing of parameters of thin-film coatings. , 0, , .		0
41	Interference Filters: Tree-Component Dielectric Systems. , 2006, , .		0
42	An experimental study of utilizing multimode polymer fiber for load detection. , 2016, , .		0
43	3D scanner with modulation of light intensity. , 2017, , .		0
44	Improvement of the Fourier Expansion of the Electric Field Method for the Analysis of Reflectance by the Multilayered Structures. , 2018, , .		0
45	Properties of Metal/Dielectric/Metal and Dielectric/Metal/Dielectric Nanowaveguide Structures. , 2018, , .		0
46	Optimization of Recording Technology of the Surface Relief Diffraction Gratings on Base of GaAs. , 2018, , .		0
47	The Study of the Activation of Antibacterial Activity of Silver Nanoparticles by Laser Radiation. , 2018, , .		0
48	Resonance Excitation Conditions of the Luminescence in the Layered Structure with a Gain Layer. , 2019, , .		0
49	Properties of Planar Waveguide With Gain (Absorption), Applied on a Glass Prism. , 2019, , .		0
50	Surface Plasmon Polariton Resonance Excitation by Grating on the Metal Substrate. , 2019, , .		0
51	Tunable Color Filter Based on Optomechanical Plasmonic Device. , 2019, , .		0
52	Method for the Formation of a Diffraction Grating on the Semiconductors Surfaces. , 2019, , .		0
53	Diffraction Analysis of Finite Cross-Section Light Beam on Grating with Normal Incidence. , 2019, , .		0
54	The method of digital holographic interferometry for research of dental implants. , 2020, , .		0

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55	Photocatalytic Properties of Metal-Semiconductor Nanosystems. , 2020, , .		0
56	Influence of optical radiation on the silver nanoparticles formation. Applied Nanoscience (Switzerland), 0, , 1.	1.6	0
57	Size-Dependent Localized Surface Plasmon Resonance of Large Triangular Ag Nanoprisms. , 2021, , .		0
58	Surface Plasmon Polariton Resonance Grating-Based Sensors Elements. Springer Proceedings in Physics, 2020, , 309-318.	0.1	0
59	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