

Sergii Golovynskyi

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

990
citations

471061

17
h-index

500791

28
g-index

60
all docs

60
docs citations

60
times ranked

890
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical windows for head tissues in near-infrared and short-wave infrared regions: Approaching transcranial light applications. <i>Journal of Biophotonics</i> , 2018, 11, e201800141.	1.1	128
2	A ZnS/CaZnOS Heterojunction for Efficient Mechanical-to-Optical Energy Conversion by Conduction Band Offset. <i>Advanced Materials</i> , 2020, 32, e1907747.	11.1	114
3	Exciton and trion in few-layer MoS ₂ : Thickness- and temperature-dependent photoluminescence. <i>Applied Surface Science</i> , 2020, 515, 146033.	3.1	79
4	Control of secondary phases and disorder degree in Cu ₂ ZnSnS ₄ films by sulfurization at varied subatmospheric pressures. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109915.	3.0	33
5	Red and near-infrared light evokes Ca ²⁺ influx, endoplasmic reticulum release and membrane depolarization in neurons and cancer cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 214, 112088.	1.7	33
6	Enhancement of Raman Scattering and Exciton/Trion Photoluminescence of Monolayer and Few-Layer MoS ₂ by Ag Nanoprisms and Nanoparticles: Shape and Size Effects. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4119-4132.	1.5	32
7	Mechanoluminescent materials for athletic analytics in sports science. <i>Science Bulletin</i> , 2021, 66, 206-209.	4.3	27
8	Red and near-infrared light induces intracellular Ca ²⁺ flux via the activation of glutamate N-methyl-D-aspartate receptors. <i>Journal of Cellular Physiology</i> , 2019, 234, 15989-16002.	2.0	26
9	Secondary phases in Cu ₂ ZnSnS ₄ films obtained by spray pyrolysis at different substrate temperatures and Cu contents. <i>Materials Letters</i> , 2018, 216, 173-175.	1.3	25
10	Raman mapping of MoS ₂ at Cu ₂ ZnSnS ₄ /Mo interface in thin film. <i>Solar Energy</i> , 2020, 205, 154-160.	2.9	25
11	Below bandgap photoluminescence of an AlN crystal: Co-existence of two different charging states of a defect center. <i>APL Materials</i> , 2020, 8, .	2.2	24
12	Insight into Al doping effect on photodetector performance of CdS and CdS:Mg films prepared by self-controlled nebulizer spray technique. <i>Journal of Alloys and Compounds</i> , 2022, 892, 160801.	2.8	24
13	Trion Binding Energy Variation on Photoluminescence Excitation Energy and Power during Direct to Indirect Bandgap Crossover in Monolayer and Few-Layer MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 17806-17819.	1.5	22
14	Near-infrared light reduces I ² -amyloid-stimulated microglial toxicity and enhances survival of neurons: mechanisms of light therapy for Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2022, 14, .	3.0	22
15	Effect of carrier capture by deep levels on lateral photoconductivity of InGaAs/GaAs quantum dot structures. <i>Journal of Applied Physics</i> , 2011, 110, 043717.	1.1	21
16	Deep levels in metamorphic InAs/InGaAs quantum dot structures with different composition of the embedding layers. <i>Semiconductor Science and Technology</i> , 2017, 32, 125001.	1.0	19
17	Comparative Study of Photoelectric Properties of Metamorphic InAs/InGaAs and InAs/GaAs Quantum Dot Structures. <i>Nanoscale Research Letters</i> , 2017, 12, 335.	3.1	17
18	Photoelectric properties of the metamorphic InAs/InGaAs quantum dot structure at room temperature. <i>Journal of Applied Physics</i> , 2015, 117, 214312.	1.1	16

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19	Intensity-dependent nonlinearity of the lateral photoconductivity in InGaAs/GaAs dot-chain structures. <i>Journal of Applied Physics</i> , 2016, 119, 184303.	1.1	16
20	High transparent and conductive undoped ZnO thin films deposited by reactive ion-beam sputtering. <i>Vacuum</i> , 2018, 153, 204-210.	1.6	15
21	Defect influence on in-plane photocurrent of InAs/InGaAs quantum dot array: long-term electron trapping and Coulomb screening. <i>Nanotechnology</i> , 2019, 30, 305701.	1.3	15
22	Laser-Induced Periodic Ag Surface Structure with Au Nanorods Plasmonic Nanocavity Metasurface for Strong Enhancement of Adenosine Nucleotide Label-Free Photoluminescence Imaging. <i>ACS Omega</i> , 2020, 5, 14030-14039.	1.6	15
23	MoS ₂ two-dimensional quantum dots with weak lateral quantum confinement: Intense exciton and trion photoluminescence. <i>Surfaces and Interfaces</i> , 2021, 23, 100909.	1.5	15
24	Interband Photoconductivity of Metamorphic InAs/InGaAs Quantum Dots in the 1.3–1.5- μ m Window. <i>Nanoscale Research Letters</i> , 2018, 13, 103.	3.1	14
25	Near-infrared lateral photoresponse in InGaAs/GaAs quantum dots. <i>Semiconductor Science and Technology</i> , 2020, 35, 055029.	1.0	14
26	Photoconductivity spectra of Ge/Si heterostructures with Ge QDs. <i>Nanotechnology</i> , 2007, 18, 185401.	1.3	13
27	Plasmonic Nanocavity Metasurface Based on Laser-Structured Silver Surface and Silver Nanoprisms for the Enhancement of Adenosine Nucleotide Photoluminescence. <i>ACS Applied Nano Materials</i> , 2019, 2, 7152-7161.	2.4	12
28	Excitation intensity dependence of lateral photocurrent in InGaAs/GaAs dot-chain structures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 2622-2626.	0.9	11
29	Antireflection Enhancement by Composite Nanoporous Zeolite 3A–Carbon Thin Film. <i>Nanomaterials</i> , 2019, 9, 1641.	1.9	11
30	Red and near infrared light-stimulated angiogenesis mediated via Ca ²⁺ influx, VEGF production and NO synthesis in endothelial cells in macrophage or malignant environments. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 227, 112388.	1.7	11
31	Influence of anharmonicity and interlayer interaction on Raman spectra in mono- and few-layer MoS ₂ : A computational study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 136, 114999.	1.3	9
32	Thickness-dependent structural parameters of kesterite Cu ₂ ZnSnSe ₄ thin films for solar cell absorbers. <i>Materials Letters</i> , 2018, 225, 82-84.	1.3	8
33	Peripheral N-methyl-D-aspartate receptor localization and role in gastric acid secretion regulation: immunofluorescence and pharmacological studies. <i>Scientific Reports</i> , 2018, 8, 7445.	1.6	8
34	Red-shifted photoluminescence and gamma irradiation stability of nc-Si/SiO_2 /DLC down-converter anti-reflection coatings. <i>Diamond and Related Materials</i> , 2019, 100, 107578.	1.8	8
35	InAs/InGaAs quantum dots confined by InAlAs barriers for enhanced room temperature light emission: Photoelectric properties and deep levels. <i>Microelectronic Engineering</i> , 2021, 238, 111514.	1.1	8
36	Bipolar Effects in Photovoltage of Metamorphic InAs/InGaAs/GaAs Quantum Dot Heterostructures: Characterization and Design Solutions for Light-Sensitive Devices. <i>Nanoscale Research Letters</i> , 2017, 12, 559.	3.1	7

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37	Macrophages Modulated by Red/NIR Light: Phagocytosis, Cytokines, Mitochondrial Activity, Ca ²⁺ Influx, Membrane Depolarization and Viability. <i>Photochemistry and Photobiology</i> , 2022, 98, 484-497.	1.3	7
38	Spectroscopy and Theoretical Modeling of Phonon Vibration Modes and Band Gap Energy of Cu ₂ ZnSn(S _x Se _{1-x}) ₄ Bulk Crystals and Thin Films. <i>ACS Omega</i> , 2021, 6, 29137-29148.	1.6	7
39	Plasmonic enhancement of exciton and trion photoluminescence in 2D MoS ₂ decorated with Au nanorods: Impact of nonspherical shape. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 140, 115213.	1.3	7
40	Raman Scattering and Exciton Photoluminescence in Few-Layer GaSe: Thickness- and Temperature-Dependent Behaviors. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10459-10468.	1.5	7
41	Comparing the Impact of NIR, Visible and UV Light on ROS Upregulation via Photoacceptors of Mitochondrial Complexes in Normal, Immune and Cancer Cells. <i>Photochemistry and Photobiology</i> , 2023, 99, 106-119.	1.3	7
42	The lateral photoconductivity of Si/Ge structures with quantum dots. <i>Semiconductor Science and Technology</i> , 2006, 21, 857-859.	1.0	6
43	Photocurrent spectroscopy of indirect transitions in Ge/Si multilayer quantum dots at room temperature. <i>Surface Science</i> , 2007, 601, L45-L48.	0.8	6
44	Kinetics peculiarities of photovoltage in vertical metamorphic InAs/InGaAs quantum dot structures. <i>Semiconductor Science and Technology</i> , 2019, 34, 075025.	1.0	6
45	Hexagram bi-layer MoS ₂ flake: The impact of polycrystallinity and strains on the exciton and trion photoluminescence. <i>Surfaces and Interfaces</i> , 2021, 26, 101343.	1.5	6
46	Comparison of semi-insulating InAlAs and InP:Fe for InP-based buried-heterostructure QCLs. <i>Journal of Crystal Growth</i> , 2015, 425, 360-363.	0.7	4
47	Morpho-Functional Characteristics of Bone Marrow Multipotent Mesenchymal Stromal Cells after Activation or Inhibition of Epidermal Growth Factor and Toll-Like Receptors or Treatment with DNA Intercalator Cisplatin. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 24-33.	1.1	4
48	Defect levels and interface space charge area responsible for negative photovoltage component in InAs/GaAs quantum dot photodetector structure. <i>Microelectronic Engineering</i> , 2020, 230, 111367.	1.1	4
49	MoS ₂ monolayer quantum dots on a flake: Efficient sensitization of exciton and trion photoluminescence via resonant nonradiative energy and charge transfers. <i>Applied Surface Science</i> , 2022, 601, 154209.	3.1	4
50	Photoluminescence of porous silicon as an indicator of its interaction with nucleic acids. <i>EPJ Applied Physics</i> , 2016, 76, 30401.	0.3	3
51	Photoelectric and deep level study of metamorphic InAs/InGaAs quantum dots with GaAs confining barriers for photoluminescence enhancement. <i>Semiconductor Science and Technology</i> , 2020, 35, 095022.	1.0	3
52	Novel Hybrid Compound 4-[(E)-2-phenylethanesulfonamido]-N-hydroxybutanamide with Antimetastatic and Cytotoxic Action: Synthesis and Anticancer Screening. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2019, 18, 1495-1504.	0.9	3
53	NMDA receptor expression during cell transformation process at early stages of liver cancer in rodent models. <i>American Journal of Physiology - Renal Physiology</i> , 2022, 322, G142-G153.	1.6	3
54	Theoretical study of Raman scattering in MoS ₂ x Se ₂ (1-x) layered alloys. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1193-1205.	1.2	2

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55	Optical transparence windows for head tissues in near and short-wave infrared regions. , 2017, , .		2
56	Lateral photoconductivity of Ge/Si heterostructures with Ge quantum dots. Semiconductors, 2007, 41, 935-938.	0.2	1
57	Metamorphic InAs/InGaAs Quantum Dot Structures: Photoelectric Properties and Deep Levels. Springer Proceedings in Physics, 2020, , 319-336.	0.1	1
58	THE ANISOTROPY OF ELECTRICAL PROPERTIES OF $\text{InGaAs}/\text{GaAs}$ HETEROSTRUCTURES WITH CHAINS OF InGaAs QUANTUM DOTS. , 2011, , .		0
59	Combining optical imaging and pharmacological methods to localize N-methyl-D-aspartate glutamate receptors in a stomach wall. , 2017, , .		0
60	Metamorphic InAs/InAlAs/InGaAs quantum dots: Establishing the limit for indium composition in InGaAs buffers. Microelectronic Engineering, 2022, 263, 111840.	1.1	0