

# Armandas BalÄytis

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

1,407  
citations

257357

24  
h-index

377752

34  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Noble metal-modified faceted anatase titania photocatalysts: Octahedron versus decahedron. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 574-587.	10.8	71
2	Subtle Variations in Surface Properties of Black Silicon Surfaces Influence the Degree of Bactericidal Efficiency. <i>Nano-Micro Letters</i> , 2018, 10, 36.	14.4	68
3	From Fundamental toward Applied SERS: Shared Principles and Divergent Approaches. <i>Advanced Optical Materials</i> , 2018, 6, 1800292.	3.6	65
4	Au-Ag-Cu nano-alloys: tailoring of permittivity. <i>Scientific Reports</i> , 2016, 6, 25010.	1.6	54
5	Anti-reflective surfaces: Cascading nano/microstructuring. <i>APL Photonics</i> , 2016, 1, .	3.0	52
6	Chemically non-perturbing SERS detection of a catalytic reaction with black silicon. <i>Nanoscale</i> , 2018, 10, 9780-9787.	2.8	50
7	Tipping solutions: emerging 3D nano-fabrication/ -imaging technologies. <i>Nanophotonics</i> , 2017, 6, 923-941.	2.9	44
8	Ultra-wide free spectral range, enhanced sensitivity, and removed mode splitting SOI optical ring resonator with dispersive metal nanodisks. <i>Optics Letters</i> , 2015, 40, 2977.	1.7	41
9	Nanostructured Antireflective and Thermoisolative Cicada Wings. <i>Langmuir</i> , 2016, 32, 4698-4703.	1.6	41
10	Orientational Mapping Augmented Sub-Wavelength Hyper-Spectral Imaging of Silk. <i>Scientific Reports</i> , 2017, 7, 7419.	1.6	36
11	Tailoring Metal and Insulator Contributions in Plasmonic Perfect Absorber Metasurfaces. <i>ACS Applied Nano Materials</i> , 2018, 1, 3557-3564.	2.4	36
12	Plasmonic photo-thermoelectric energy converter with black-Si absorber. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 72-77.	3.0	35
13	Role of topological scale in the differential fouling of <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> bacterial cells on wrinkled gold-coated polystyrene surfaces. <i>Nanoscale</i> , 2018, 10, 5089-5096.	2.8	35
14	Black-CuO: surface-enhanced Raman scattering and infrared properties. <i>Nanoscale</i> , 2015, 7, 18299-18304.	2.8	34
15	Air and dielectric bands photonic crystal microringresonator for refractive index sensing. <i>Optics Letters</i> , 2016, 41, 3655.	1.7	34
16	Kirchhoff's metasurfaces towards efficient photo-thermal energy conversion. <i>Scientific Reports</i> , 2019, 9, 8284.	1.6	32
17	Metamaterial for Hydrogen Sensing. <i>ACS Sensors</i> , 2019, 4, 2389-2394.	4.0	31
18	Optical tweezing and binding at high irradiation powers on black-Si. <i>Scientific Reports</i> , 2017, 7, 12298.	1.6	29

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19	Silk: Optical Properties over 12.6 Octaves THz-IR-Visible-UV Range. <i>Materials</i> , 2017, 10, 356.	1.3	28
20	Micro-thermocouple on nano-membrane: thermometer for nanoscale measurements. <i>Scientific Reports</i> , 2018, 8, 6324.	1.6	26
21	Hyperspectral mapping of anisotropy. <i>Nanoscale Horizons</i> , 2019, 4, 1443-1449.	4.1	26
22	Hybrid curved nano-structured micro-optical elements. <i>Optics Express</i> , 2016, 24, 16988.	1.7	25
23	3D printed polarizing grids for IR-THz synchrotron radiation. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 035101.	1.0	25
24	Wrinkled axicons: shaping light from cusps. <i>Optics Express</i> , 2016, 24, 24075.	1.7	24
25	Au Nanoplasma as Efficient Hard X-ray Emission Source. <i>ACS Photonics</i> , 2016, 3, 2184-2190.	3.2	24
26	Silk fibroin as a water-soluble bio-resist and its thermal properties. <i>RSC Advances</i> , 2016, 6, 11863-11869.	1.7	24
27	Optical readout of hydrogen storage in films of Au and Pd. <i>Optics Express</i> , 2017, 25, 24081.	1.7	24
28	Engineering 3D Nanoplasmonic Assemblies for High Performance Spectroscopic Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27661-27666.	4.0	23
29	Silk patterns made by direct femtosecond laser writing. <i>Biomicrofluidics</i> , 2016, 10, 054101.	1.2	23
30	Enhanced photoacoustics from gold nano-colloidal suspensions under femtosecond laser excitation. <i>Optics Express</i> , 2016, 24, 14781.	1.7	22
31	Pulsed laser deposition of Pt-WO <sub>3</sub> of hydrogen sensors under atmospheric conditions. <i>Applied Surface Science</i> , 2020, 534, 147568.	3.1	22
32	Enhanced sensitivity and measurement range SOI microring resonator with integrated one-dimensional photonic crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 750.	0.9	21
33	First Principles Calculations Toward Understanding SERS of 2,2'-Bipyridyl Adsorbed on Au, Ag, and Au@Ag Nanoalloy. <i>Journal of Computational Chemistry</i> , 2019, 40, 925-932.	1.5	19
34	Coupling of molecular vibration and metasurface modes for efficient mid-infrared emission. <i>Journal of Materials Chemistry C</i> , 2022, 10, 451-462.	2.7	19
35	Synthetic dimension band structures on a Si CMOS photonic platform. <i>Science Advances</i> , 2022, 8, eabk0468.	4.7	19
36	Nano-rescaling of gold films on polystyrene: thermal management for SERS. <i>Nanoscale</i> , 2017, 9, 690-695.	2.8	18

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37	Nanoscale chemical mapping of laser-solubilized silk. <i>Materials Research Express</i> , 2017, 4, 115028.	0.8	17
38	Dynamic position shifts of X-ray emission from a water film induced by a pair of time-delayed femtosecond laser pulses. <i>Optics Express</i> , 2017, 25, 24109.	1.7	17
39	Paracetamol micro-structure analysis by optical mapping. <i>Applied Surface Science</i> , 2019, 473, 127-132.	3.1	17
40	Absorption and scattering in perfect thermal radiation absorber-emitter metasurfaces. <i>Optics Express</i> , 2022, 30, 4058.	1.7	17
41	Nanoscale optical and structural characterisation of silk. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 922-929.	1.5	15
42	Infrared Polariscope Imaging of Linear Polymeric Patterns with a Focal Plane Array. <i>Nanomaterials</i> , 2019, 9, 732.	1.9	14
43	Femtosecond laser-induced hard X-ray generation in air from a solution flow of Au nano-sphere suspension using an automatic positioning system. <i>Optics Express</i> , 2016, 24, 19994.	1.7	11
44	Photoacoustic signal enhancements from gold nano-colloidal suspensions excited by a pair of time-delayed femtosecond pulses. <i>Optics Express</i> , 2017, 25, 19497.	1.7	10
45	Design concept of a hybrid photo-voltaic/thermal conversion cell for mid-infrared light energy harvester. <i>Optical Materials Express</i> , 2017, 7, 3484.	1.6	10
46	Si-based infrared optical filters. <i>Optical Engineering</i> , 2015, 54, 127103.	0.5	9
47	Ion beam lithography with gold and silicon ions. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	8
48	Enhancement of X-ray emission from nanocolloidal gold suspensions under double-pulse excitation. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2609-2617.	1.5	8
49	Kirchhoff's Thermal Radiation from Lithography-Free Black Metals. <i>Micromachines</i> , 2020, 11, 824.	1.4	8
50	Magnetism in multiferroic $\text{PbCr}_5\text{F}_3$ . <i>Optics Express</i> , 2016, 24, 17050.	1.1	7
51	MHz-ultrasound generation by chirped femtosecond laser pulses from gold nano-colloidal suspensions. <i>Optics Express</i> , 2016, 24, 17050.	1.7	7
52	Diamond: a gem for micro-optics. <i>Materials Today</i> , 2018, 21, 798-799.	8.3	6
53	Ultraviolet-photoelectric effect for augmented contrast and resolution in electron microscopy. <i>APL Photonics</i> , 2016, 1, 021301.	3.0	6
54	Improvement and stabilization of optical hydrogen sensing ability of Au-Pd alloys. <i>Optics Express</i> , 2020, 28, 25383.	1.7	6

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55	Freezing out all-optical poling dynamics of azophenylcarbazole molecules in polycarbonate. Physical Chemistry Chemical Physics, 2013, 15, 14219.	1.3	3
56	Hydrogen Evolution on Nano-StructuredCuO/Pd Electrode: Raman Scattering Study. Applied Sciences (Switzerland), 2019, 9, 5301.	1.3	3
57	Microring resonators with circular element inner-wall gratings for enhanced sensing. Japanese Journal of Applied Physics, 2020, 59, S00D02.	0.8	3
58	Artificial Antibacterial Surfaces that are Simple to Fabricate. , 2015, , 27-39.		2
59	3D micro-optical elements for generation of tightly focused vortex beams. MATEC Web of Conferences, 2015, 32, 03002.	0.1	1
60	Nanotextured surfaces for surface enhanced Raman spectroscopy and sensors. , 2016, , .		1
61	Rescalable solid-state nanopores. AIP Conference Proceedings, 2017, , .	0.3	1
62	Photo-thermoelectric energy converter with black-Si absorber. , 2014, , .		0
63	Alloy plasmonic materials. , 2015, , .		0
64	Energy harvesting with black Si/plasmonics composite material. , 2015, , .		0
65	Writing of bio-compatible silk patterns: 3D laser nano-printing. , 2016, , .		0
66	3D Printed Gratings: IR-THz Applications. , 2018, , .		0
67	Perforated Microring Resonators for Enhanced Sensing. , 2019, , .		0