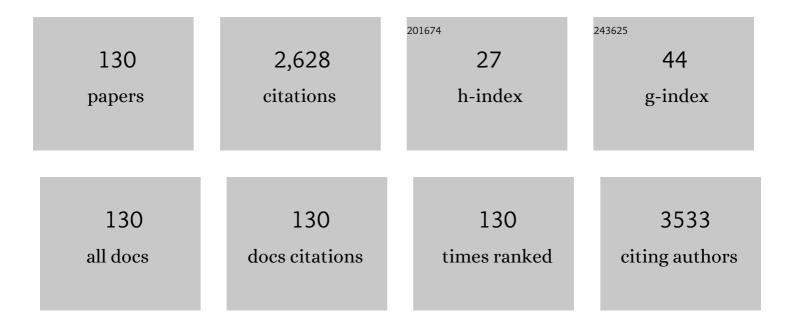
Albena Ivanisevic

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	"Dip-Pen―Nanolithography on Semiconductor Surfaces. Journal of the American Chemical Society, 2001, 123, 7887-7889.	13.7	185
2	Gallium nitride is biocompatible and non-toxic before and after functionalization with peptides. Acta Biomaterialia, 2012, 8, 728-733.	8.3	121
3	Molecular Analysis of Blood with Microâ€/Nanoscale Fieldâ€Effectâ€Transistor Biosensors. Small, 2011, 7, 1863-1875.	10.0	103
4	Light-emitting diodes as chemical sensors. Nature, 2001, 409, 476-476.	27.8	76
5	DNA-Templated Magnetic Nanowires with Different Compositions:Â Fabrication and Analysis. Langmuir, 2007, 23, 3886-3890.	3.5	73
6	Enzymatic Clipping of DNA Wires Coated with Magnetic Nanoparticles. Journal of the American Chemical Society, 2005, 127, 3276-3277.	13.7	72
7	Templates for DNA-templated Fe3O4 nanoparticles. Biomaterials, 2005, 26, 2749-2757.	11.4	68
8	Electronic Biosensors Based on III-Nitride Semiconductors. Annual Review of Analytical Chemistry, 2015, 8, 149-169.	5.4	66
9	A mesoporous silica nanosphere-based drug delivery system using an electrically conducting polymer. Nanotechnology, 2009, 20, 275102.	2.6	64
10	Inorganic material coatings and their effect on cytotoxicity. Chemical Society Reviews, 2012, 41, 2052-2060.	38.1	61
11	Assemblies of "Hinged―Ironâ^'Porphyrins as Potential Oxygen Sensors. Journal of the American Chemical Society, 2000, 122, 1116-1122.	13.7	51
12	SiOx Surfaces with Lithographic Features Composed of a TAT Peptide. Journal of Physical Chemistry B, 2004, 108, 15223-15228.	2.6	49
13	Taking charge of biomolecules. Nature Nanotechnology, 2007, 2, 596-597.	31.5	46
14	Aqueous Stability of Ga- and N-Polar Gallium Nitride. Langmuir, 2013, 29, 216-220.	3.5	46
15	Site-Directed Exchange Studies with Combinatorial Libraries of Nanostructures. Journal of the American Chemical Society, 2002, 124, 11997-12001.	13.7	41
16	Functional silica nanoparticleâ€mediated neuronal membrane sealing following traumatic spinal cord injury. Journal of Neuroscience Research, 2010, 88, 1433-1444.	2.9	40
17	TAT Peptide Immobilization on Gold Surfaces:  A Comparison Study with a Thiolated Peptide and Alkylthiols Using AFM, XPS, and FT-IRRAS. Journal of Physical Chemistry B, 2005, 109, 6225-6232.	2.6	39
18	Covalent attachment of a peptide to the surface of gallium nitride. Surface Science, 2011, 605, 1466-1475	1.9	36

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19	Collagen-Binding Peptidoglycans: A Biomimetic Approach to Modulate Collagen Fibrillogenesis for Tissue Engineering Applications. Tissue Engineering - Part A, 2009, 15, 2991-2999.	3.1	35
20	Repairing the Damaged Spinal Cord and Brain with Nanomedicine. Small, 2008, 4, 1676-1681.	10.0	34
21	Magnetotransport of One-Dimensional Chains of CoFe ₂ O ₄ Nanoparticles Ordered along DNA. Journal of Physical Chemistry C, 2008, 112, 3191-3193.	3.1	33
22	Examining MRI Contrast in Three-Dimensional Cell Culture Phantoms with DNA-Templated Nanoparticle Chains. ACS Applied Materials & amp; Interfaces, 2011, 3, 1282-1288.	8.0	33
23	Covalent Attachment of TAT Peptides and Thiolated Alkyl Molecules on GaAs Surfaces. Journal of Physical Chemistry B, 2005, 109, 12731-12737.	2.6	32
24	Photoluminescent Properties of Cadmium Selenide in Contact with Solutions and Films of Metalloporphyrins:Â Nitric Oxide Sensing and Evidence for the Aversion of an Analyte to a Buried Semiconductorâ^'Film Interface. Journal of the American Chemical Society, 2000, 122, 3731-3738.	13.7	31
25	Persistent Photoconductivity, Nanoscale Topography, and Chemical Functionalization Can Collectively Influence the Behavior of PC12 Cells on Wide Bandgap Semiconductor Surfaces. Small, 2017, 13, 1700481.	10.0	29
26	Dipâ€Pen Nanolithography of Bioactive Peptides on Collagenâ€Terminated Retinal Membrane. Advanced Materials, 2008, 20, 3678-3681.	21.0	28
27	Assessment of the Passivation Capabilities of Two Different Covalent Chemical Modifications on GaP(100). Langmuir, 2010, 26, 8141-8146.	3.5	28
28	Circular Dichroism Study of the Mechanism of Formation of DNA Templated Nanowires. ChemPhysChem, 2008, 9, 2203-2206.	2.1	27
29	Quantitative Evaluation of Covalently Bound Molecules on GaP (100) Surfaces. Journal of Physical Chemistry C, 2008, 112, 2147-2155.	3.1	27
30	Serial and Parallel Dip-Pen Nanolithography Using a Colloidal Probe Tip. Journal of the American Chemical Society, 2010, 132, 4532-4533.	13.7	27
31	In Situ Chemical Functionalization of Gallium Nitride with Phosphonic Acid Derivatives during Etching. Langmuir, 2014, 30, 2038-2046.	3.5	27
32	Cell Behavior on Gallium Nitride Surfaces: Peptide Affinity Attachment versus Covalent Functionalization. Langmuir, 2013, 29, 8377-8384.	3.5	25
33	Modified surface chemistry, potential, and optical properties of polar gallium nitride via long chained phosphonic acids. Applied Surface Science, 2015, 327, 498-503.	6.1	25
34	Peptides on GaAs Surfaces:Â Comparison between Features Generated by Microcontact Printing and Dip-Pen Nanolithography. Langmuir, 2006, 22, 8670-8674.	3.5	24
35	Surface topography and chemistry shape cellular behavior on wide band-gap semiconductors. Acta Biomaterialia, 2014, 10, 2455-2462.	8.3	24
36	Olefin metathesis reaction on GaN (0001) surfaces. Applied Surface Science, 2011, 257, 4625-4632.	6.1	23

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37	Amphiphilic silicones prepared from branched PEOâ€silanes with siloxane tethers. Journal of Polymer Science Part A, 2010, 48, 4108-4119.	2.3	22
38	Tuning the biocompatibility of aluminum nitride. Materials Letters, 2017, 189, 1-4.	2.6	22
39	Redox-Controlled Orthogonal Assembly of Charged Nanostructures. Journal of the American Chemical Society, 2001, 123, 12424-12425.	13.7	21
40	Formation and Characterization of Homogeneous and Mixed Self-Assembled Monolayers of Peptides and Alkanethiols on Indium Phosphide Surfaces. Journal of Physical Chemistry C, 2007, 111, 3710-3718.	3.1	21
41	Collagen-Binding Peptide Interaction with Retinal Tissue Surfaces. Langmuir, 2008, 24, 1591-1594.	3.5	21
42	Properties of Polyelectrolyte Templates Generated by Dip-Pen Nanolithography and Microcontact Printing. Chemistry of Materials, 2004, 16, 5216-5219.	6.7	20
43	A review of in situ surface functionalization of gallium nitride via beaker wet chemistry. Journal of Materials Research, 2015, 30, 2859-2870.	2.6	20
44	Engineering the Cell-Semiconductor Interface: A Materials Modification Approach using II-VI and III-V Semiconductor Materials. Small, 2015, 11, 768-780.	10.0	20
45	Noninvasive Stimulation of Neurotypic Cells Using Persistent Photoconductivity of Gallium Nitride. ACS Omega, 2018, 3, 615-621.	3.5	20
46	Encapsulated cells: an atomic force microscopy study. Biomaterials, 2004, 25, 3655-3662.	11.4	19
47	Fabrication of positively and negatively charged polyelectrolyte structures by dip-pen nanolithography. Journal of Materials Chemistry, 2005, 15, 649.	6.7	19
48	Gold–iron oxide nanoparticle chains scaffolded on DNA as potential magnetic resonance imaging agents. Journal of Materials Chemistry, 2011, 21, 939-943.	6.7	18
49	Wet-Chemical Passivation of InAs: Toward Surfaces with High Stability and Low Toxicity. Accounts of Chemical Research, 2012, 45, 1451-1459.	15.6	18
50	Ligation of Nanoparticle Coated DNA Cleaved with Restriction Enzymes. Chemistry of Materials, 2007, 19, 3586-3588.	6.7	17
51	Characterization of amino acid adlayers on InAs surfaces using X-ray photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2009, 172, 47-53.	1.7	17
52	Characterizing proton relaxation times for metallic and magnetic layer-by-layer-coated, DNA-templated nanoparticle chains. Nanotechnology, 2010, 21, 245103.	2.6	17
53	Adsorption and adhesion of common serum proteins to nanotextured gallium nitride. Nanoscale, 2015, 7, 2360-2365.	5.6	17
54	Surface Characterization of Gallium Nitride Modified with Peptides before and after Exposure to Ionizing Radiation in Solution. Langmuir, 2014, 30, 15477-15485.	3.5	16

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55	Comparison of the Stability of Functionalized GaN and GaP. ChemPhysChem, 2015, 16, 1687-1694.	2.1	16
56	Photoluminescent Properties of Cadmium Selenide in Contact with Solutions and Films of Metalloporphyrins. Evidence for Semiconductor-Mediated Adduct Formation of Oxygen with Metalloporphyrins at Room Temperature. Journal of Physical Chemistry B, 1999, 103, 1914-1919.	2.6	15
57	Linker-Enhanced Binding of Metalloporphyrins to Cadmium Selenide and Implications for Oxygen Detection. Langmuir, 2000, 16, 7852-7858.	3.5	15
58	Characterization of Peptide Adsorption on InAs Using X-ray Photoelectron Spectroscopy. Langmuir, 2011, 27, 3774-3782.	3.5	15
59	Nanoscale topography, semiconductor polarity and surface functionalization: additive and cooperative effects on PC12 cell behavior. RSC Advances, 2016, 6, 97873-97881.	3.6	15
60	Mixed Adlayer of Alkanethiol and Peptide on GaAs(100):  Quantitative Characterization by X-ray Photoelectron Spectroscopy. Langmuir, 2008, 24, 3164-3170.	3.5	14
61	Transverse Relaxivity Changes after Layer-by-Layer Encapsulation of Multicomponent DNA Templated Nanostructures. Journal of Physical Chemistry C, 2010, 114, 22508-22513.	3.1	14
62	Neurotypic cell attachment and growth on III-nitride lateral polarity structures. Materials Science and Engineering C, 2016, 58, 1194-1198.	7.3	14
63	Elastomeric Nanoparticle Composites Covalently Bound to Al ₂ O ₃ /GaAs Surfaces. Langmuir, 2007, 23, 9472-9480.	3.5	13
64	Modification of native collagen with cellâ€adhesive peptide to promote RPE cell attachment on Bruch's membrane. Biotechnology and Bioengineering, 2009, 102, 1723-1729.	3.3	13
65	Study of the Morphological and Adhesion Properties of Collagen Fibers in the Bruch's Membrane. Journal of Physical Chemistry B, 2005, 109, 19052-19055.	2.6	12
66	In vitro Cytotoxic Evaluation of Metallic and Magnetic DNA-Templated Nanostructures. ACS Applied Materials & Interfaces, 2010, 2, 1407-1413.	8.0	12
67	Surface modifications on InAs decrease indium and arsenic leaching under physiological conditions. Applied Surface Science, 2012, 261, 842-850.	6.1	12
68	Patterning of Polypeptides on a Collagen-Terminated Tissue Surface. Journal of Physical Chemistry C, 2007, 111, 11676-11681.	3.1	11
69	Atomic Force Microscopy Investigation of Vocal Fold Collagen. Laryngoscope, 2007, 117, 1876-1881.	2.0	11
70	Adsorption of amino acids on indium arsenide (100) surfaces: Assessment of passivation capabilities. Surface Science, 2009, 603, 907-911.	1.9	11
71	Biomolecular Gradients via Semiconductor Gradients: Characterization of Amino Acid Adsorption to In _{<i>x</i>} Ga _{1–<i>x</i>} N Surfaces. ACS Applied Materials & Interfaces, 2013, 5, 7236-7243.	8.0	11
72	Characterization of collagen fibers in Bruch's membrane using chemical force microscopy. Analytical and Bioanalytical Chemistry, 2006, 386, 652-657.	3.7	10

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73	In vitro assessment of the biocompatibility of chemically modified GaAs surfaces. Nanobiotechnology, 2006, 2, 51-59.	1.2	10
74	DNA Immobilization on GaP(100) Investigated by Kelvin Probe Force Microscopy. Journal of Physical Chemistry C, 2010, 114, 15486-15490.	3.1	10
75	Materials characterization and mechanobiology of the eye. Materials Science and Engineering C, 2013, 33, 1867-1875.	7.3	10
76	Passivation of semipolar (10-1-1) GaN with different organic adsorbates. Materials Letters, 2019, 236, 201-204.	2.6	10
77	Mapping the Interaction Forces between TAR RNA and TAT Peptides on GaAs Surfaces Using Chemical Force Microscopy. Langmuir, 2006, 22, 1768-1774.	3.5	9
78	Comparison between Patterns Generated by Microcontact Printing and Dip-Pen Nanolithography on InP Surfaces. Journal of Physical Chemistry C, 2007, 111, 17989-17992.	3.1	9
79	Fabrication of ordered metallic and magnetic heterostructured DNA—Nanoparticle hybrids. Colloids and Surfaces B: Biointerfaces, 2008, 63, 296-300.	5.0	9
80	Quantitative Analysis of the Functionalization of Gallium Phosphide With Organic Azides. Scanning, 2012, 34, 332-340.	1.5	9
81	In situ and ex situ functionalization of nanostructured gallium oxyâ€hydroxide with a porphyrin dye. Scanning, 2016, 38, 671-683.	1.5	9
82	Cantilever-Based Sensor for the Detection of Different Chromophore Isomers. Analytical Chemistry, 2007, 79, 4702-4708.	6.5	8
83	Molecular recognition of chromophore molecules to amine terminated surfaces. Applied Surface Science, 2007, 253, 4176-4181.	6.1	8
84	Circular dichroism study of enzymatic manipulation on magnetic and metallic DNA template nanowires. Colloids and Surfaces B: Biointerfaces, 2008, 67, 279-283.	5.0	8
85	Mechanism of Proton Relaxation for Enzymeâ€Manipulated, Multicomponent Gold–Magnetic Nanoparticle Chains. ChemPhysChem, 2010, 11, 3664-3672.	2.1	8
86	Adsorption of Mixed Peptide/Thiol Adlayers on InAs: Assessment of Different Functionalization Strategies Using X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 14244-14252.	3.1	8
87	Bioelectronics communication: encoding yeast regulatory responses using nanostructured gallium nitride thin films. Nanoscale, 2018, 10, 11506-11516.	5.6	8
88	Dipâ€pen nanolithography on SiO _{<i>x</i>} and tissueâ€derived substrates: comparison with multiple biological inks. Scanning, 2010, 32, 30-34.	1.5	7
89	Detecting DNA methylation through changes in transverse proton relaxation. Analyst, The, 2011, 136, 2441.	3.5	7
90	Spore-Terminated Cantilevers for Chemical Patterning on Complex Architectures. Journal of the American Chemical Society, 2011, 133, 9627-9629.	13.7	7

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91	Morphological Properties of Collagen Fibers in Porcine Lamina Propria. Journal of Voice, 2011, 25, 254-257.	1.5	7
92	Long-term stability assessment of AlGaN/GaN field effect transistors modified with peptides: Device characteristics vs. surface properties. AIP Advances, 2015, 5, 097102.	1.3	7
93	Variably doped nanostructured gallium nitride surfaces can serve as biointerfaces for neurotypic PC12 cells and alter their behavior. RSC Advances, 2018, 8, 36722-36730.	3.6	7
94	DNA Molecules on GaP (100) Surfaces: Spectroscopic Characterization and Biospecificity Assessment. ChemPhysChem, 2008, 9, 1528-1530.	2.1	6
95	Electrical detection of the biological interaction of a charged peptide via gallium arsenide junction-field-effect transistors. Journal of Applied Physics, 2008, 103, 114510.	2.5	6
96	Quantitative Analysis of Human Internal Limiting Membrane Extracted from Patients with Macular Holes. Langmuir, 2010, 26, 12810-12816.	3.5	6
97	Kelvin Probe Force Microscopy Analysis of the Covalent Functionalization and DNA Modification of Gallium Phosphide Nanorods. Journal of Physical Chemistry C, 2012, 116, 12613-12620.	3.1	6
98	Ga Ion-Enhanced and Particle Shape-Dependent Generation of Reactive Oxygen Species in X-ray-Irradiated Composites. ACS Omega, 2018, 3, 5252-5259.	3.5	6
99	Tuning Microbial Activity via Programmatic Alteration of Cell/Substrate Interfaces. Advanced Materials, 2021, 33, e2004655.	21.0	6
100	Chromophore binding to in vitro engineered bio-mimetic surfaces. Applied Surface Science, 2005, 243, 7-10.	6.1	5
101	Structural and adhesion properties of surfaces functionalized with polyelectrolytes and polystyrene particles. Talanta, 2005, 67, 503-506.	5.5	5
102	Aqueous stability of nanostructured aluminum and gallium oxyhydroxide before and after functionalization with lysine. Materials Letters, 2016, 184, 278-281.	2.6	5
103	Interfaces with Tunable Mechanical and Radiosensitizing Properties. ACS Applied Materials & Interfaces, 2016, 8, 21956-21961.	8.0	5
104	Bulk and Surface Electronic Properties of Inorganic Materials: Tools to Guide Cellular Behavior. Small Methods, 2018, 2, 1800016.	8.6	5
105	Characterization of Pseudomonas aeruginosa Films on Different Inorganic Surfaces before and after UV Light Exposure. Langmuir, 2018, 34, 10806-10815.	3.5	5
106	Behavior of <i>E. coli</i> with Variable Surface Morphology Changes on Charged Semiconductor Interfaces. ACS Applied Bio Materials, 2019, 2, 4044-4051.	4.6	5
107	Nanostructured Oxides Containing Ga: Materials with Unique Properties for Aqueous-Based Applications. ACS Omega, 2019, 4, 6876-6882.	3.5	5
108	Nanostructured GaOOH modified with reactive yellow, red and blue water-soluble dyes. AIP Advances, 2019, 9, .	1.3	5

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109	Lithography on GaP(100) surfaces. Surface Science, 2008, 602, 1993-1998.	1.9	4
110	Heterostructured DNA templates: A combined magnetic force microscopy and circular dichroism study. Applied Physics Letters, 2008, 93, .	3.3	4
111	In situ functionalization of gallium nitride powder with a porphyrin dye. Journal of Materials Research, 2015, 30, 2910-2918.	2.6	4
112	Modification of the Surface Properties of Al _{<i>x</i>} Ga _{1–<i>x</i>} N Substrates with Gradient Aluminum Composition Using Wet Chemical Treatments. ACS Omega, 2019, 4, 11760-11769.	3.5	4
113	Characterization of Conformational Adsorbate Changes on a Tissue-Derived Substrate Using Fourier Transform Infrared Spectroscopy. Langmuir, 2010, 26, 18083-18088.	3.5	3
114	Multicomponent DNAâ€Templated Nanoparticle Chains with Controllable Dimension and Composition. Small, 2011, 7, 2021-2026.	10.0	3
115	Parallel Dipâ€Pen Nanolithography using Spore―and Colloidâ€Terminated Cantilevers. Small, 2012, 8, 3791-3794.	10.0	3
116	Modulated optical properties of nonpolar gallium nitride via surface in-situ functionalization with cysteamine assisted phosphoric acid. Applied Surface Science, 2014, 295, 207-213.	6.1	3
117	Interfacial Properties of Doped Semiconductor Materials Can Alter the Behavior of <i>Pseudomonas aeruginosa</i> Films. ACS Applied Electronic Materials, 2019, 1, 1641-1652.	4.3	3
118	Surface modification of vitreoretinal surgical instruments with layerâ€byâ€layer films. Scanning, 2011, 33, 397-401.	1,5	2
119	Gallium containing composites as a tunable material to understand neuronal behavior under variable stiffness and radiation conditions. Materials Science and Engineering C, 2017, 71, 317-321.	7.3	2
120	Modulating the Stress Response of <i>E. coli</i> at GaN Interfaces Using Surface Charge, Surface Chemistry, and Genetic Mutations. ACS Applied Bio Materials, 2020, 3, 7211-7218.	4.6	2
121	HgNO3 sensitivity of AlGaN/GaN field effect transistors functionalized with phytochelating peptides. AlP Advances, 2016, 6, 065105.	1.3	1
122	Photoluminescence changes of III-Nitride lateral polarity structures after chemical functionalization. Materials Research Express, 2016, 3, 125906.	1.6	1
123	Preface to Forum on "Interfaces for Mechanobiology and Mechanochemistry: From 2-D to 3-D Platforms― ACS Applied Materials & Interfaces, 2016, 8, 21847-21847.	8.0	1
124	Stability and Reliability of III-Nitride Based Biosensors. , 2016, , 149-196.		1
125	Synthesis and optical characterization of mixed nanostructured aluminum–gallium oxy-hydroxide. Materials Research Letters, 2017, 5, 124-127.	8.7	1
126	Selective placement of templated DNA nanowires between microstructured electrodes. International Journal of Nanomedicine, 2006, 1, 219-222.	6.7	1

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127	Oxidative Stress Transcriptional Responses of <i>Escherichia coli</i> at GaN Interfaces. ACS Applied Bio Materials, 2020, 3, 9073-9081.	4.6	1
128	Deposition of Triamcinolone Acetonide and Its Effect on Soft Tissue Topography. Advanced Healthcare Materials, 2012, 1, 520-525.	7.6	0
129	Chromophore Binding to In-vitro Engineered Bio-mimetic Surfaces. Materials Research Society Symposia Proceedings, 2003, 774, 7211.	0.1	0
130	Dual restriction enzyme digest of cationic-gold-coated DNA scaffolds. International Journal of Nanomedicine, 2007, 2, 821-5.	6.7	0