Roman V Viter

List of Publications by Year
in descending order

90	3,342	109321 35	155660 55
papers	citations	h-index	g-index

91	91	91	3992
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tunable TiO₂â€“BNâ€“Pd nanofibers by combining electrospinning and atomic layer deposition to enhance photodegradation of acetaminophen. Dalton Transactions, 2022, 51, 2674-2695.	3.3	31
2	Biosensors for the Determination of SARS-CoV-2 Virus and Diagnosis of COVID-19 Infection. International Journal of Molecular Sciences, 2022, 23, 666.	4.1	57
3	Electrochemically Deposited Molecularly Imprinted Polymer-Based Sensors. Sensors, 2022, 22, 1282.	3.8	30
4	Towards an Electrochemical Immunosensor for the Detection of Antibodies against SARS-CoV-2 Spike Protein. Journal of the Electrochemical Society, 2022, 169, 037523.	2.9	41
5	Superior efficiency of BN/Ce2O3/TiO2 nanofibers for photocatalytic hydrogen generation reactions. Applied Surface Science, 2022, 594, 153438.	6.1	18
6	Modification of physicochemical properties and bioactivity of oxide coatings formed on Ti substrates via plasma electrolytic oxidation in crystalline and amorphous calcium phosphate particle suspensions. Applied Surface Science, 2022, 598, 153793.	6.1	10
7	Electrochemical Determination of Interaction between SARS-CoV-2 Spike Protein and Specific Antibodies. International Journal of Molecular Sciences, 2022, 23, 6768.	4.1	27
8	From Microorganism-Based Amperometric Biosensors towards Microbial Fuel Cells. Sensors, 2021, 21, 2442.	3.8	36
9	Bioactivity Performance of Pure Mg after Plasma Electrolytic Oxidation in Silicate-Based Solutions. Molecules, 2021, 26, 2094.	3.8	13
10	Affinity Sensors for the Diagnosis of COVID-19. Micromachines, 2021, 12, 390.	2.9	56
11	Application of Polydopamine Functionalized Zinc Oxide for Glucose Biosensor Design. Polymers, 2021, 13, 2918.	4.5	23
12	Scanning electrochemical microscopy and electrochemical impedance spectroscopy-based characterization of perforated polycarbonate membrane modified by carbon-nanomaterials and glucose oxidase. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126822.	4.7	11
13	Photoelectrocatalysis of paracetamol on Pdâ€“ZnO/ N-doped carbon nanofibers electrode. Applied Materials Today, 2021, 24, 101129.	4.3	26
14	Highly textured boron/nitrogen co-doped TiO2 with honeycomb structure showing enhanced visible-light photoelectrocatalytic activity. Applied Surface Science, 2020, 505, 144419.	6.1	38
15	ZnO/polyaniline composite based photoluminescence sensor for the determination of acetic acid vapor. Talanta, 2020, 211, 120658.	5.5	75
16	Photoelectrochemical Bisphenol S Sensor Based on ZnOâ€Nanoroads Modified by Molecularly Imprinted Polypyrrole. Macromolecular Chemistry and Physics, 2020, 221, 1900232.	2.2	53
17	Enhancement of calcium copper titanium oxide photoelectrochemical performance using boron nitride nanosheets. Chemical Engineering Journal, 2020, 389, 124326.	12.7	48
18	Biocompatibility and Antibacterial Properties of ZnO-Incorporated Anodic Oxide Coatings on TiZrNb Alloy. Nanomaterials, 2020, 10, 2401.	4.1	19

#	Article	IF	Citations
19	Whispering gallery mode resonators covered by a ZnO nanolayer. Optik, 2020, 219, 165296.	2.9	4
20	Photoluminescent Detection of Human T-Lymphoblastic Cells by ZnO Nanorods. Molecules, 2020, 25, 3168.	3.8	18
21	Synthesis and photoluminescence properties of hybrid 1D coreâ€“shell structured nanocomposites based on ZnO/polydopamine. RSC Advances, 2020, 10, 29751-29758.	3.6	34
22	Influence of PDA Coating on the Structural, Optical and Surface Properties of ZnO Nanostructures. Nanomaterials, 2020, 10, 2438.	4.1	21
23	Whispering gallery mode resonator and glucose oxidase based glucose biosensor. Sensors and Actuators B: Chemical, 2020, 318, 128004.	7.8	33
24	Synthesis, Optical, and Morphological Studies of ZnO Powders and Thin Films Fabricated by Wet Chemical Methods. Materials, 2020, 13, 2559.	2.9	13
25	Kinetics of TiO2 photochromic response in different hole scavenging solvents. Photochemical and Photobiological Sciences, 2020, 19, 1072-1077.	2.9	17
26	Photoluminescence Study of Defects in ZnO-Coated Polyacrylonitrile Nanofibers. Journal of Physical Chemistry C, 2020, 124, 9434-9441.	3.1	37
27	Segregation of copper oxide on calcium copper titanate surface induced by Graphene Oxide for Water splitting applications. Applied Surface Science, 2020, 516, 146051.	6.1	31
28	Whispering Gallery Mode Resonator Sensors Referenced to Saturated Absorption Lines in Rubidium Atoms and a fs Frequency Comb. , 2019, , .		0
29	Cell and tissue response to nanotextured Ti6Al4V and Zr implants using high-speed femtosecond laser-induced periodic surface structures. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102036.	3.3	45
30	Zinc oxide nanorod based immunosensing platform for the determination of human leukemic cells. Talanta, 2019, 200, 378-386.	5.5	26
31	Metal Oxide Nanostructures in Sensing. , 2019, , 41-91.		18
32	BN/GdxTi(1-x)O(4-x)/2 nanofibers for enhanced photocatalytic hydrogen production under visible light. Applied Catalysis B: Environmental, 2019, 251, 76-86.	20.2	73
33	Improved Crystalline Structure and Enhanced Photoluminescence of ZnO Nanolayers in Bi₂Se₃/ZnO Heterostructures. Journal of Physical Chemistry C, 2019, 123, 31156-31166.	3.1	7
34	Photoluminescence immunosensor based on bovine leukemia virus proteins immobilized on the ZnO nanorods. Sensors and Actuators B: Chemical, 2019, 285, 601-606.	7.8	53
35	Whispering gallery mode resonators coated with Au nanoparticles. , 2019, , .		1
36	Optical Spectroscopy for Characterization of Metal Oxide Nanofibers. , 2019, , 523-556.		3

#	Article	IF	Citations
37	Influence of ZnO/graphene nanolaminate periodicity on their structural and mechanical properties. Journal of Materials Science and Technology, 2018, 34, 1487-1493.	10.7	20
38	High photodegradation and antibacterial activity of BNâ€“Ag/TiO₂ composite nanofibers under visible light. New Journal of Chemistry, 2018, 42, 1250-1259.	2.8	80
39	Optical Spectroscopy for Characterization of Metal Oxide Nanofibers. , 2018, , 1-35.		2
40	Analytical, thermodynamical and kinetic characteristics of photoluminescence immunosensor for the determination of Ochratoxin A. Biosensors and Bioelectronics, 2018, 99, 237-243.	10.1	96
41	Optical and structural properties of Al 2 O 3 doped ZnO nanotubes prepared by ALD and their photocatalytic application. Surface and Coatings Technology, 2018, 343, 24-29.	4.8	21
42	Porous silicon based photoluminescence immunosensor for rapid and highly-sensitive detection of Ochratoxin A. Biosensors and Bioelectronics, 2018, 102, 661-667.	10.1	64
43	Optical properties of ZnO deposited by atomic layer deposition (ALD) on Si nanowires. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 236-237, 139-146.	3.5	19
44	Toward development of optical biosensors based on photoluminescence of TiO2 nanoparticles for the detection of Salmonella. Sensors and Actuators B: Chemical, 2017, 252, 95-102.	7.8	70
45	Hybrid electrochemical/electrochromic Cu(II) ion sensor prototype based on PANI/ITO-electrode. Sensors and Actuators B: Chemical, 2017, 248, 527-535.	7.8	118
46	Tailoring of the electronic properties of ZnO-polyacrylonitrile nanofibers: Experiment and theory. Applied Surface Science, 2017, 411, 494-501.	6.1	34
47	Mesoporous ZnFe₂O₄@TiO₂ Nanofibers Prepared by Electrospinning Coupled to PECVD as Highly Performing Photocatalytic Materials. Journal of Physical Chemistry C, 2017, 121, 24669-24677.	3.1	88
48	Gold coated porous silicon nanocomposite as a substrate for photoluminescence-based immunosensor suitable for the determination of Aflatoxin B1. Talanta, 2017, 175, 297-304.	5.5	59
49	Enhanced photocatalytic performance of novel electrospun BN/TiO₂ composite nanofibers. New Journal of Chemistry, 2017, 41, 81-89.	2.8	79
50	Towards electrochemical/electrochromic sensors based on polyaniline modified indium tin oxide electrodes. , 2017, , .		2
51	Photoluminescence ZnO nanorod biosensors for medical and food safety applications. , 2017, , .		1
52	Porous silicon photoluminescence biosensor for rapid and sensitive detection of toxins. , 2017, , .		1
53	Development of optical WGM resonators for biosensors. , 2017, , .		3
54	Application of 2D Non-Graphene Materials and 2D Oxide Nanostructures for Biosensing Technology. Sensors, 2016, 16, 223.	3.8	128

#	Article	IF	Citations
55	Application of Thin ZnO ALD Layers in Fiber-Optic Fabry-PÃ©rot Sensing Interferometers. Sensors, 2016, 16, 416.	3.8	38
56	Space charge limited current mechanism in Bi2S3 nanowires. Journal of Applied Physics, 2016, 119, .	2.5	15
57	Tuning of Structural and Optical Properties of Graphene/ZnO Nanolaminates. Journal of Physical Chemistry C, 2016, 120, 23716-23725.	3.1	75
58	Synthesis of novel ZnO/ZnAl₂O₄ multi co-centric nanotubes and their long-term stability in photocatalytic application. RSC Advances, 2016, 6, 103692-103699.	3.6	47
59	Bioanalytical system for detection of cancer cells with photoluminescent ZnO nanorods. Nanotechnology, 2016, 27, 465101.	2.6	19
60	Optical biosensors based on ZnO nanostructures: advantages and perspectives. A review. Sensors and Actuators B: Chemical, 2016, 229, 664-677.	7.8	253
61	Enhancement of Electronic and Optical Properties of ZnO/Al₂O₃ Nanolaminate Coated Electrospun Nanofibers. Journal of Physical Chemistry C, 2016, 120, 5124-5132.	3.1	87
62	Cell and Tissue Response to Modified by Laser-induced Periodic Surface Structures Biocompatible Materials for Dental Implants. , 2016, , .		1
63	The influence of localized plasmons on the optical properties of Au/ZnO nanostructures. Journal of Materials Chemistry C, 2015, 3, 6815-6821.	5.5	63
64	Optical properties of ultrathin Al2O3/ZnO nanolaminates. Thin Solid Films, 2015, 594, 96-100.	1.8	25
65	Tuning of ZnO 1D nanostructures by atomic layer deposition and electrospinning for optical gas sensor applications. Nanotechnology, 2015, 26, 105501.	2.6	67
66	Continuous sensing of hydrogen peroxide and glucose via quenching of the UV and visible luminescence of ZnO nanoparticles. Mikrochimica Acta, 2015, 182, 1819-1826.	5.0	82
67	Tailoring the Structural, Optical, and Photoluminescence Properties of Porous Silicon/TiO₂ Nanostructures. Journal of Physical Chemistry C, 2015, 119, 7164-7171.	3.1	53
68	Structural and optical properties of TiO2â€“Al2O3nanolaminates produced by atomic layer deposition. , 2015, , .		3
69	Study on Structural, Mechanical, and Optical Properties of Al₂O₃â€“TiO₂ Nanolaminates Prepared by Atomic Layer Deposition. Journal of Physical Chemistry C, 2015, 119, 20591-20599.	3.1	63
70	ALD thin ZnO layer as an active medium in a fiber-optic Fabryâ€“Perot interferometer. Sensors and Actuators A: Physical, 2015, 221, 88-94.	4.1	40
71	Photoluminescence: A very sensitive tool to detect the presence of anatase in rutile phase electrospun TiO 2 nanofibers. Superlattices and Microstructures, 2015, 77, 18-24.	3.1	48
72	Application of Room Temperature Photoluminescence From ZnO Nanorods for Salmonella Detection. IEEE Sensors Journal, 2014, 14, 2028-2034.	4.7	57

#	Article	IF	Citations
73	Grain size dependent bandgap shift of SnO2 nanofibers. Metals and Materials International, 2014, 20, 163-167.	3.4	29
74	Optical and structural properties of Al₂O₃/ZnO nanolaminates deposited by ALD method. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1505-1508.	0.8	7
75	Tuning Optical Properties of Al₂O₃/ZnO Nanolaminates Synthesized by Atomic Layer Deposition. Journal of Physical Chemistry C, 2014, 118, 3811-3819.	3.1	111
76	Synthesis of ZnO nanoneedles by thermal oxidation of Zn thin films. Journal of Non-Crystalline Solids, 2013, 377, 212-216.	3.1	34
77	TiO₂optical sensor for amino acid detection. Proceedings of SPIE, 2013, , .	0.8	3
78	Evolution of microstructure and related optical properties of ZnO grown by atomic layer deposition. Beilstein Journal of Nanotechnology, 2013, 4, 690-698.	2.8	92
79	Novel Immune TiO2 Photoluminescence Biosensors for Leucosis Detection. Procedia Engineering, 2012, 47, 338-341.	1.2	24
80	ZnO Nanorods Room Temperature Photoluminescence Biosensors For Salmonella Detection. , 2012, , .		0
81	Immune Biosensor Based on Silica Nanotube Hydrogels for Rapid Biochemical Diagnostics of Bovine Retroviral Leukemia. Procedia Engineering, 2011, 25, 948-951.	1.2	16
82	PLD-grown <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	1.2	4
83	Room temperature detection of chemical pollutants by SnO 2 -based optical fiber sensors. , 2007, , .		0
84	High sensitivity near-field opto-chemical sensors based on SnO 2 particle layers. , 2007, , .		0
85	A Novel Optochemical Sensor Based on $hbox{SnO}_{2}$ Sensitive Thin Film for ppm Ammonia Detection in Liquid Environment. Journal of Lightwave Technology, 2006, 24, 5000-5007.	4.6	31
86	Optochemical sensor for water monitoring based on SnO2 particle layer deposited onto optical fibers by the electrospray pyrolysis method. Applied Physics Letters, 2006, 89, 111103.	3.3	16
87	Influence of Layers Morphology on the Sensitivity of SnO2-based Optical Fiber Sensors. , 2006, , .		1
88	Tin dioxide based optical sensor for in water ppm detection of ammonia at room temperature. , 2005, , .		2
89	Ammonia detection in water with a tin dioxide based optical sensor. , 2005, , .		1
90	Simultaneous Temperature and Ammonia Detection in Water by Tin-Dioxide Optoelectronic Sensor. , 0, , .		2