Branislav Vlahovic

List of Publications by Year
in descending order

144	2,321	394421	233421
papers	citations	19 h-index	45 g-index

146	146	146	1493
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GEp/GMpRatio by Polarization Transfer ineâ†'pâ†'epâ†'. Physical Review Letters, 2000, 84, 1398-1402.	7.8	665
2	Transverse AsymmetryATâ€²from the Quasielastic3Heâ†'(eâ†',eâ€²)Process and the Neutron Magnetic Form Factor. Physical Review Letters, 2000, 85, 2900-2904.	7.8	144
3	Measurement of the neutral weak form factors of the proton. Physical Review Letters, 1999, 82, 1096-1100.	7.8	123
4	Measurements of the Electric Form Factor of the Neutron up to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Q</mml:mi><mml:mn>2</mml:mn></mml:msup><mml:mo>=</mml:mo><mml:mn>3.4</mml:mn><mml:m the Reaction<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn /><mml:mn>3</mml:mn></mml:msup><mml:mover accent="true". Physical Review Letters, 2010, 105, 262302.	7.8	110
5	A Review on Preparation and Applications of Silver-Containing Nanofibers. Nanoscale Research Letters, 2016, 11, 80.	5.7	92
6	Measurements of the Deuteron Elastic Structure FunctionA(Q2)for0.7â‰Q2â‰6.0(GeV/c)2at Jefferson Laboratory. Physical Review Letters, 1999, 82, 1374-1378.	7.8	90
7	Dynamical Relativistic Effects in Quasielastic1p-Shell Proton Knockout fromO16. Physical Review Letters, 2000, 84, 3265-3269.	7.8	66
8	Electrospun Polymer Nanofibers Decorated with Noble Metal Nanoparticles for Chemical Sensing. Nanoscale Research Letters, 2017, 12, 451.	5.7	56
9	Compton-Scattering Cross Section on the Proton at High Momentum Transfer. Physical Review Letters, 2007, 98, 152001.	7.8	41
10	Humidity sensing properties of nanocrystalline pseudobrookite (Fe2TiO5) based thick films. Sensors and Actuators B: Chemical, 2018, 277, 654-664.	7.8	39
11	Electron spectral properties of the InAs/GaAs quantum ring. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 33, 349-354.	2.7	35
12	Investigation of ZnFe₂O₄ spinel ferrite nanocrystalline screenâ€printed thick films for application in humidity sensing. International Journal of Applied Ceramic Technology, 2019, 16, 981-993.	2.1	34
13	Measurement of the Generalized Polarizabilities of the Proton in Virtual Compton Scattering atQ2=0.92and1.76â€‰â€‰GeV2. Physical Review Letters, 2004, 93, 122001.	7.8	33
14	Modeling ofInAsâˆ•GaAsquantum ring capacitance spectroscopy in the nonparabolic approximation. Physical Review B, 2006, 73, .	3.2	32
15	Energy dependent effective mass model of InAs/GaAs quantum ring. Modelling and Simulation in Materials Science and Engineering, 2004, 12, 1121-1130.	2.0	31
16	Generalization of the Numerov method for solution ofNdbreakup problem in configuration space. Physical Review C, 2004, 69, .	2.9	24
17	Production of silicon quantum dots for photovoltaic applications by picosecond pulsed laser ablation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 116, 273-277.	3.5	24
18	Precision Measurement of the Spin-Dependent Asymmetry in the Threshold Region of3Hâ†'e(eâ†',eâ€²). Physical Review Letters, 2001, 87, 242501.	7.8	22

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19	Fractal frontiers in microelectronic ceramic materials. Ceramics International, 2019, 45, 9679-9685.	4.8	21
20	0+states of the12C nucleus: the Faddeev calculation in configuration space. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 1207-1224.	3.6	19
21	Raman Responses in Mechanically Activated <scp><scp>BaTiO</scp></scp>₃. Journal of the American Ceramic Society, 2014, 97, 601-608.	3.8	19
22	Quantitative analysis of a-Si1â^'xCx:H thin films by vibrational spectroscopy and nuclear methods. Vacuum, 2001, 61, 303-308.	3.5	18
23	Dynamics of the16O(e,eâ€²p)Reaction at High Missing Energies. Physical Review Letters, 2001, 86, 5670-5674.	7.8	18
24	Electron transfer between weakly coupled concentric quantum rings. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1669-1676.	2.7	17
25	Trions in bulk and monolayer materials: Faddeev equations and hyperspherical harmonics. Nanotechnology, 2018, 29, 124002.	2.6	17
26	Dual effects of single-walled carbon nanotubes coupled with near-infrared radiation on Bacillus anthracis spores: inactivates spores and stimulates the germination of surviving spores. Journal of Biological Engineering, 2013, 7, 19.	4.7	16
27	Fabrication and testing of a microstrip particle detector based on highly oriented diamond films. Diamond and Related Materials, 2000, 9, 1008-1012.	3.9	15
28	PVDF-HFP/NKBT composite dielectrics: Perovskite particles induce the appearance of an additional dielectric relaxation process in ferroelectric polymer matrix. Polymer Testing, 2021, 96, 107093.	4.8	15
29	Electron states of semiconductor quantum ring with geometry and size variations. Molecular Simulation, 2005, 31, 779-785.	2.0	14
30	Three-body calculations fortheK^{â^'}ppsystem within potential models. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 065104.	3.6	14
31	Cluster calculation for9ÂBe hypernucleus. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 513-518.	3.6	13
32	Electronic and level statistics properties of Si/SiO2 quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1979-1983.	2.7	13
33	Graph theory applied to microelectronics intergranular relations. Ferroelectrics, 2021, 570, 145-152.	0.6	13
34	Neural networks and microelectronics parameters distribution measurements depending on sintering temperature and applied voltage. Modern Physics Letters B, 2020, 34, 2150172.	1.9	13
35	The4He tetramer ground state in the Faddeev-Yakubovsky differential equations formalism. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 501-508.	1.5	12
36	InGaAs/GaAs quantum dots within an effective approach. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1358-1363.	2.7	12

#	Article	IF	Citations
37	Electron transfer from the barrier in InAs/GaAs quantum dot-well structure. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113629.	2.7	11
38	Ceramic materials and energyâ€"Extended Cobleâ€™s model and fractal nature. Journal of the European Ceramic Society, 2019, 39, 3513-3525.	5.7	11
39	The Artificial Neural Networks Applied for Microelectronics Intergranular Relations Determination. Integrated Ferroelectrics, 2020, 212, 135-146.	0.7	11
40	Electronic properties and quasi-zero-energy states of graphene quantum dots. Physical Review B, 2021, 103, .	3.2	11
41	Implications of the space-star anomaly in nd breakup. Nuclear Physics A, 1998, 631, 692-696.	1.5	10
42	Single-Walled Carbon Nanotubes Coupled with Near-Infrared Laser for Inactivation of Bacterial Cells. Journal of Nanoscience and Nanotechnology, 2011, 11, 4708-4716.	0.9	10
43	Controllable synthesis of Fe3O4-wollastonite adsorbents for efficient heavy metal ions/oxyanions removal. Environmental Science and Pollution Research, 2019, 26, 12379-12398.	5.3	10
44	Processing and properties of dense cordierite ceramics obtained through solid-state reaction and pressure-less sintering. Advances in Applied Ceramics, 2019, 118, 241-248.	1.1	10
45	Ceramics, materials, microelectronics and graph theory new frontiers. Modern Physics Letters B, 2020, 34, 2150159.	1.9	10
46	Shungite - a carbon-mineral rock material: Its sinterability and possible applications. Processing and Application of Ceramics, 2019, 13, 89-97.	0.8	10
47	A new prediction for the binding energy of the7Î›He hypernucleus. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 389-400.	3.6	9
48	Single-electron levels of InAs/GaAs quantum dot: Comparison with capacitance spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 31, 99-102.	2.7	9
49	Non-parabolic model for InAs/GaAs quantum dot capacitance spectroscopy. Solid State Communications, 2006, 140, 483-486.	1.9	9
50	On binding energy of trions in bulk materials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 787-791.	2.1	9
51	High-energy photon polarimeter for astrophysics. Journal of Astronomical Telescopes, Instruments, and Systems, 2018, 4, 1.	1.8	9
52	Three-body model for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1460</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 132 Td (stretchy="false">)</m	4.7	8
53	Brownian fractal nature coronavirus motion. Modern Physics Letters B, 2021, 35, 2150076.	1.9	8
54	Structure and photocatalytic properties of sintered TiO2 nanotube arrays. Science of Sintering, 2018, 50, 39-50.	1.4	8

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55	Hydroxyapatite/TiO2 Nanomaterial with Defined Microstructural and Good Antimicrobial Properties. Antibiotics, 2022, 11, 592.	3.7	8
56	9 Be Low-Lying Spectrum Within a Three-Cluster Model. Few-Body Systems, 2011, 50, 255-257.	1.5	7
57	High-intensity positron microprobe at the Thomas Jefferson National Accelerator Facility. Journal of Applied Physics, 2014, 115, 234907.	2.5	7
58	A time-resolved millimeter wave conductivity (TR-mmWC) apparatus for charge dynamical properties of semiconductors. Review of Scientific Instruments, 2018, 89, 104704.	1.3	7
59	Brownian motion and fractal nature. Modern Physics Letters B, 2020, 34, 2040061.	1.9	7
60	The fractal nature as new frontier in microstructural characterization and relativization of scale sizes within space. Modern Physics Letters B, 2020, 34, 2050421.	1.9	7
61	Effect of impurities ordering in the electronic spectrum and conductivity of graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126401.	2.1	7
62	Structural Characterization of Nanocellulose/Fe3O4 Hybrid Nanomaterials. Polymers, 2022, 14, 1819.	4.5	7
63	Preparation of Silver Nanoparticles in Poly(N-vinylpyrrolidone)/Ethanol Solutions. International Journal of Nanoscience, 2017, 16, 1750008.	0.7	6
64	On Mass Polarization Effect in Three-Body Nuclear Systems. Few-Body Systems, 2018, 59, 1.	1.5	6
65	Electronic ceramics fractal microstructure analysis - Minkowski Hull and grain boundaries. Ferroelectrics, 2019, 545, 184-194.	0.6	6
66	Enhanced detection of volatile organic compounds (VOCs) by caffeine modified carbon nanotube junctions. Nano Structures Nano Objects, 2020, 24, 100578.	3.5	6
67	The 3D graph approach for breakdown voltage calculation in BaTiO3 ceramics. International Journal of Modern Physics B, 2021, 35, 2150103.	2.0	6
68	Detecting somatic mutations in genomic sequences by means of Kolmogorovâ€“Arnold analysis. Royal Society Open Science, 2015, 2, 150143.	2.4	5
69	Charge symmetry breaking effect for ³H and ³He within s-wave approach. International Journal of Modern Physics E, 2016, 25, 1650042.	1.0	5
70	Some electrical and photovoltaic properties of poly-Si/SnO2 heterojunction. Vacuum, 1990, 40, 209-211.	3.5	4
71	Effective approach for strained InAs/GaAs quantum structures. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 715-723.	2.7	4
72	Disappearance of quantum chaos in coupled chaotic quantum dots. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 620-623.	2.1	4

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73	Î›nnbound state with three-body potential. EPJ Web of Conferences, 2016, 113, 08006.	0.3	4
74	Self-Ordered Voids Formation in SiO₂ Matrix by Ge Outdiffusion. Journal of Nanomaterials, 2018, 2018, 1-8.	2.7	4
75	Nd breakup within isospinless AAB model. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 105103.	3.6	4
76	The Nano-Scale Modified BaTiO3 Morphology Influence on Electronic Properties and Ceramics Fractal Nature Frontiers. Applied Sciences (Switzerland), 2020, 10, 3485.	2.5	4
77	Is there evidence for charge symmetry breaking in the states?. Journal of Physics G: Nuclear and Particle Physics, 1996, 22, L65-L70.	3.6	3
78	The origin of photon absorption below and above surface plasmon resonance of gold colloids confined in dielectric media. Surface and Coatings Technology, 2005, 196, 89-95.	4.8	3
79	Evolution of nanoparticles in gold-implanted glass. Vacuum, 2007, 82, 130-133.	3.5	3
80	Quantum Mechanics of Semiconductor Quantum Dots and Rings. , 2012, , .		3
81	An Î±-cluster model for Î› 9 Be spectroscopy. Physics of Atomic Nuclei, 2013, 76, 355-364.	0.4	3
82	Nanosensing Backed by the Uncertainty Principle. Journal of Nanotechnology, 2016, 2016, 1-8.	3.4	3
83	Single electron tunneling in double and triple quantum wells. International Journal of Modern Physics B, 2016, 30, 1642011.	2.0	3
84	S-wave Approach for $$varvec{nnp}$$ and $$varvec{ppn}$$ Systems with Phenomenological Correction for Singlet $$varvec{NN}$$ Potentials. Few-Body Systems, 2017, 58, 1.	1.5	3
85	Formation of isolated Ge nanoparticles in thin continuous Ge/SiO2 multilayers. Vacuum, 2020, 179, 109508.	3.5	3
86	Limit on the anisotropy of the one-way maximum attainable speed of the electron. Physical Review D, 2020, 101, .	4.7	3
87	Lower Bound for ppKâ€“ Quasi-Bound State Energy. Physics of Particles and Nuclei, 2020, 51, 979-987.	0.7	3
88	Localized-Delocalized States and Tunneling in Double Quantum Dots: Effect of Symmetry Violation. Quantum Matter, 2015, 4, 358-366.	0.2	3
89	Particle representation for $NN{ar K}$ system. SciPost Physics Proceedings, 2020, , .	0.4	3
90	Nanocrystalline Zn2SnO4/SnO2: Crystal structure and humidity influence on complex impedance. Journal of Electroceramics, 2020, 45, 135-147.	2.0	3

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91	Analyzing power measurements for the dâ†'+dâ†'d+p+n breakup reaction at 12 MeV. Physical Review C, 1997, 56, 38-49.	2.9	2
92	CW Argon-ion Laser Crystallization of a-Si:H Thin Films. Materials Research Society Symposia Proceedings, 2001, 664, 691.	0.1	2
93	Numerical modeling of experimentally fabricated InAs/GaAs quantum rings. Molecular Simulation, 2007, 33, 589-592.	2.0	2
94	Low-lying resonances of 9Î›Be: Faddeev calculation with PadÃ©-approximants. Nuclear Physics A, 2007, 790, 695c-698c.	1.5	2
95	Spectroscopy of the Î› 7 He nucleus in a three-cluster model. Physics of Atomic Nuclei, 2009, 72, 580-587.	0.4	2
96	Faddeev calculations for theÎ›9Be spectrum. EPJ Web of Conferences, 2010, 3, 07004.	0.3	2
97	Electron tunneling in double quantum dots and rings. Journal of Physics: Conference Series, 2012, 393, 012012.	0.4	2
98	<I>C</I>â€“<I>V</I> Data and Geometry Parameters of Self-Assembled InAs/GaAs Quantum Rings. Journal of Computational and Theoretical Nanoscience, 2012, 9, 669-672.	0.4	2
99	Theory of confined states of positronium in spherical and circular quantum dots with Kaneâ€™s dispersion law. Nanoscale Research Letters, 2013, 8, 311.	5.7	2
100	A cluster calculation for 6He spectrum. Physics of Atomic Nuclei, 2014, 77, 384-388.	0.4	2
101	Particle representation for the kaonic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mi>N</mml:mi><mml:mover> system. Physical Review C, 2020, 101, .	2.9	2
102	Thickness dependent growth of Ge nanoparticles in amorphous Ge/SiO2 multilayers. Vacuum, 2021, 190, 110294.	3.5	2
103	Interpolation Methods Applied on Biomolecules and Condensed Matter Brownian Motion. Journal of Circuits, Systems and Computers, 0, , .	1.5	2
104	Indium phosphide nanocrystals formed in silica by sequential ion implantation. Surface and Coatings Technology, 2005, 196, 123-129.	4.8	1
105	A WAVELENGTH CONVERSION BASED ON CROSS-GAIN MODULATION OF A SEMICONDUCTOR OPTICAL AMPLIFIER FIBER RING LOOP. Journal of Nonlinear Optical Physics and Materials, 2009, 18, 309-318.	1.8	1
106	LIGHT PROPAGATING IN METAL SUB-WAVELENGTH-HOLE ARRAYS. Nano, 2010, 05, 295-300.	1.0	1
107	Configuration-Space Faddeev Calculation for Protonâ€“Deuteron Elastic Scattering Observables. Few-Body Systems, 2011, 50, 267-269.	1.5	1
108	Highly Selective and Sensitive Biochemical Detector. NATO Science for Peace and Security Series C: Environmental Security, 2015, , 137-150.	0.2	1

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109	Hyperon binding energy inÎ›6He andÎ›7He. EPJ Web of Conferences, 2016, 113, 07008.	0.3	1
110	Underlying causes of the magnetic behavior in surface patterned NiFe2O4 thin films. MRS Communications, 2016, 6, 397-401.	1.8	1
111	Time-dependent nonlinear finite element modeling of the elastic and plastic deformation in SiGe heterostructured nanomaterials. Journal of Applied Physics, 2017, 121, 025104.	2.5	1
112	nd-Scattering within MGL Approach for Configuration-Space Faddeev Equations. Physics of Particles and Nuclei, 2019, 50, 433-442.	0.7	1
113	Isospin effect in three-body kaonic-like systems. AIP Conference Proceedings, 2019, , .	0.4	1
114	Simulation and synthesis of silver dendritic nanostructures for surface-enhanced Raman scattering. Materials Express, 2019, 9, 1082-1086.	0.5	1
115	Thermal parameters defined with graph theory approach in synthetized diamonds. Thermal Science, 2022, 26, 2177-2186.	1.1	1
116	Electron Tunneling in Chaotic InAs/GaAs Quantum Ring. Quantum Matter, 2014, 3, 549-555.	0.2	1
117	Electronic Structure of Quantum Dots and Rings. Reviews in Theoretical Science, 2015, 3, 155-176.	0.5	1
118	Sintering parameters influence on dielectric properties of modified nano-BaTiO₃ ceramics. Modern Physics Letters B, 2022, 36, .	1.9	1
119	Effect of Coulomb interaction in quasifree scattering and quasifree reactions in three body breakup processes. Physical Review C, 1994, 49, 2643-2649.	2.9	0
120	Micro Raman Spectroscopy of Silicon Nanocrystals Produced by Picosecond Pulsed Laser Ablation. Materials Research Society Symposia Proceedings, 2002, 738, 1221.	0.1	0
121	Nucleon-Deuteron Breakup Scattering in Configuration Space. Few-Body Systems, 2003, -1, 1-1.	1.5	0
122	QUBIT ENTANGLEMENT FROM A BIPARTITE ATOMIC SYSTEM UNDER STRONG ATOM-VACUUM-FIELD COUPLING IN A CARBON NANOTUBE. , 2007, , .		0
123	Atomic entanglement in carbon nanotubes. Materials Science and Engineering C, 2007, 27, 1117-1120.	7.3	0
124	A study of neutron-deuteron scattering in configuration space. Nuclear Physics A, 2007, 790, 699c-702c.	1.5	0
125	Two-jet inclusive cross-sections in heavy-ion collisions in the perturbative QCD. Nuclear Physics A, 2007, 784, 407-425.	1.5	0
126	Optical absorption by atomically doped carbon nanotubes under strong atomâ€“field coupling. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 105-108.	2.7	0

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127	Configuration-space Faddeev calculation for proton-deuteron observables at energy E[sub lab]â€‰=â€‰3â€‰MeV. , 2011, , .		0
128	Erbium doped fiber ring laser for optical wavelength conversion. Optik, 2011, 122, 340-344.	2.9	0
129	Electron position: jumping in double concentric quantum rings. Materials Research Society Symposia Proceedings, 2011, 1370, 137.	0.1	0
130	Electron Localization in Double Concentric Quantum Ring. Journal of Computational and Theoretical Nanoscience, 2012, 9, 1023-1028.	0.4	0
131	Electron Localization, Tunneling and Energy Spectrum for Systems of Double Quantum Dots. Materials Research Society Symposia Proceedings, 2013, 1551, 129-134.	0.1	0
132	Computational modeling of electrophotonics nanomaterials: Tunneling in double quantum dots. , 2014, , .		0
133	Neutronâ€“Deuteron Scattering Observables at E lab Â=Â14.1 MeV. Few-Body Systems, 2014, 55, 1033-1034.	1.5	0
134	Uniformity of cosmic microwave background as a non-inflationary geometrical effect. Modern Physics Letters A, 2015, 30, 1530026.	1.2	0
135	Electronic and optical properties of a double quantum dot molecule with Kaneâ€™s dispersion law. Journal of Physics: Conference Series, 2016, 702, 012010.	0.4	0
136	Electronic States and Absorption of Light in a Lemniscate Shaped Quantum Dot Molecule. , 2016, , 33-44.		0
137	Metallic Nanostructures for Multispectral Filters. Journal of Nanoscience and Nanotechnology, 2017, 17, 573-576.	0.9	0
138	Stress Evolution during Ge Nanoparticles Growth in a SiO₂ Matrix. Inorganic Chemistry, 2018, 57, 14939-14952.	4.0	0
139	BWO and IMPATT Millimeter Wave Probing of c-Si, and Perovskite. , 2018, , .		0
140	Millimeter wave probe data for irradiated silicon. , 2020, , .		0
141	Semi insulating N-gallium nitride (GaN) on sapphire surface reflection dataset obtained at millimeter wave frequencies 107.35â€“165â€¯GHz. Data in Brief, 2020, 33, 106419.	1.0	0
142	Millimeter wave photoresponse of low-dose radiation damaged silicon. Nuclear Instruments & Methods in Physics Research B, 2020, 478, 50-55.	1.4	0
143	Effect of isospin averaging for ppK^- kaonic cluster. SciPost Physics Proceedings, 2020, , .	0.4	0
144	Fractal Nature Bridge between Neural Networks and Graph Theory Approach within Material Structure Characterization. Fractal and Fractional, 2022, 6, 134.	3.3	0