

Ashok Vaseashta

List of Publications by Year in descending order

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102
papers

1,089
citations

535685

17
h-index

511568

30
g-index

111
all docs

111
docs citations

111
times ranked

1245
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of nZVI/PVP nanoparticles for bioremediation applications. Bioremediation Journal, 2022, 26, 162-170.	1.0	2
2	Nexus of Electrospun Nanofibers and Additive Processingâ€”Overview of Wearable Tactical Gears for CBRNE Defense. Smart Innovation, Systems and Technologies, 2022, , 133-145.	0.5	4
3	Decontamination of Seawater in a Harbor: Case Study of Potential Bioterrorism Attack. Smart Innovation, Systems and Technologies, 2022, , 217-226.	0.5	1
4	On the mechanisms of DC conduction in electrospun PLZT/PVDF nanocomposite membranes. Journal of Materials Science, 2022, 57, 5084-5096.	1.7	8
5	Future of Water. Advances in Environmental Engineering and Green Technologies Book Series, 2022, , 37-63.	0.3	0
6	Groundwater Resource Investigation Using Isotope Technology on River-Sea Systems. Advances in Environmental Engineering and Green Technologies Book Series, 2022, , 87-100.	0.3	0
7	Water Scarcity Best Practices and Innovation Pathways. Advances in Environmental Engineering and Green Technologies Book Series, 2022, , 530-555.	0.3	0
8	Water Safety, Security, and Sustainability. Advances in Environmental Engineering and Green Technologies Book Series, 2022, , 1-36.	0.3	2
9	Electrospun Polyvinylidene Fluoride Nanofiber Membrane-Based Flexible Capacitive Tactile Sensors for Biomedical Applications. Surface Engineering and Applied Electrochemistry, 2022, 58, 194-201.	0.3	9
10	The role of microplastics biofilm in accumulation of trace metals in aquatic environments. World Journal of Microbiology and Biotechnology, 2022, 38, .	1.7	25
11	Effect of thermal annealing on the structural and optical properties of black silicon. Journal of Materials Science: Materials in Electronics, 2022, 33, 17001-17010.	1.1	14
12	Ecological Characterization and Bio-Mitigation Potential of Heavy Metal Contamination in Metallurgically Affected Soil. Applied Sciences (Switzerland), 2022, 12, 6312.	1.3	1
13	Hierarchical Integration of 3D Printing and Electrospinning of Nanofibers for Rapid Prototyping. , 2022, , 631-655.		4
14	Hydrocarbons Removal from Contaminated Water by Using Expanded Graphite Sorbents. Advanced Sciences and Technologies for Security Applications, 2021, , 523-545.	0.4	1
15	Macroporous Cryogels for Water Purification. Advanced Sciences and Technologies for Security Applications, 2021, , 275-290.	0.4	2
16	On the Semiconductor Spectroscopy for Identification of Emergent Contaminants in Transparent Mediums. Advanced Sciences and Technologies for Security Applications, 2021, , 663-689.	0.4	6
17	Introduction to Water Safety, Security and Sustainability. Advanced Sciences and Technologies for Security Applications, 2021, , 3-22.	0.4	4
18	Chitosanâ€™s Gelatin Cryogels as Bio-Sorbents for Removal of Dyes from Aqueous Solutions. Advanced Sciences and Technologies for Security Applications, 2021, , 263-274.	0.4	0

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19	Fabrication and Characterization of Novel Poly(d-Lactic Acid) Nanocomposite Membrane for Water Filtration Purpose. <i>Nanomaterials</i> , 2021, 11, 255.	1.9	6
20	Environmental Forensic Tools for Water Resources. <i>Advanced Sciences and Technologies for Security Applications</i> , 2021, , 333-370.	0.4	4
21	Heavy Metal Contamination in an Industrially Affected River Catchment Basin: Assessment, Effects, and Mitigation. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2881.	1.2	8
22	Environmental Safety and Security Investigations of Neustonic Microplastic Aggregates Near Water-Air Interphase. <i>Polish Journal of Environmental Studies</i> , 2021, 30, 3457-3469.	0.6	6
23	Electrospun Nanomaterials: Applications in Water Contamination Remediation. <i>Advanced Sciences and Technologies for Security Applications</i> , 2021, , 197-213.	0.4	0
24	Exposome, Biomonitoring, Assessment and Data Analytics to Quantify Universal Water Quality. <i>Advanced Sciences and Technologies for Security Applications</i> , 2021, , 67-114.	0.4	17
25	Application of the Systems Approach and System Standards in Water Safety Plan Development and Implementation. <i>Advanced Sciences and Technologies for Security Applications</i> , 2021, , 243-262.	0.4	0
26	Global warming - pro and contrary interpretations using modelling and analysis of two cities. <i>International Journal of Global Warming</i> , 2021, 24, 108.	0.2	0
27	Strategic Planning of Regional Sustainable Development Using Factor Analysis Method. <i>Polish Journal of Environmental Studies</i> , 2021, 30, 1317-1323.	0.6	6
28	Duality of Technology Nexus in Combating Terrorism and Violent Extremism in Support of Gender Mainstreaming. <i>NATO Science for Peace and Security Series Sub-series E, Human and Societal Dynamics</i> , 2021, , .	0.0	0
29	Sustainable <i>Durio zibethinus</i> -Derived Biosorbents for Congo Red Removal from Aqueous Solution: Statistical Optimization, Isotherms and Mechanism Studies. <i>Sustainability</i> , 2021, 13, 13264.	1.6	27
30	Microbial Life on the Surface of Microplastics in Natural Waters. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11692.	1.3	23
31	Novel Magnetic Nano Silica Synthesis Using Barley Husk Waste for Removing Petroleum from Polluted Water for Environmental Sustainability. <i>Sustainability</i> , 2020, 12, 10646.	1.6	31
32	Biotechnological immobilization of chemical, biological, and radioactive pollutants on land and infrastructure demolition waste after industrial accident, military action, or terrorist attack. , 2020, , 377-393.		3
33	New Method of Optical Spectroscopy for Environmental Protection and Safety. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2020, , 271-281.	0.1	4
34	Smart and Connected Sensors Network for Water Contamination Monitoring and Situational Awareness. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2020, , 283-296.	0.1	4
35	Cyber-Physical Systems to Counter CBRN Threats “Sensing Payload Capabilities in Aerial Platforms for Real-Time Monitoring and Analysis. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2020, , 3-20.	0.2	2
36	Recent Advances of Electrospinning and Multifunctional Electrospun Textile Materials for Chemical and Biological Protection. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2020, , 275-289.	0.2	1

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37	Synthesizing Nano Silica Nanoparticles from Barley Grain Waste: Effect of Temperature on Mechanical Properties. Polish Journal of Environmental Studies, 2019, 28, 2513-2521.	0.6	33
38	Synthesis, Characterization and Applications of Single Walled Carbon Nanotube-Pt-P2O5 Sensors for Absolute Humidity Measurements. Surface Engineering and Applied Electrochemistry, 2018, 54, 623-630.	0.3	2
39	Roadmapping the Future in Defense and Security: Innovations in Technology Using Multidisciplinary Convergence. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 3-14.	0.2	2
40	Nanocomposites of Electrospun Polymeric Materials As Protective Textiles Against Chemical and Biological Hazards. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 253-258.	0.2	1
41	Green Synthesis of Silver Nanoparticles Using Lantana Camara Leaf Extract and Their Use as Mercury(II) Ion Sensor. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 427-433.	0.2	3
42	Loaded Nanofibers: Force Protection, Filtration, Decontamination. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 241-252.	0.2	3
43	Loaded Electrospun Nanofibers: Chemical and Biological Defense. NATO Science for Peace and Security Series A: Chemistry and Biology, 2018, , 31-45.	0.5	3
44	Mitigating Unconventional Cyber-Warfare. , 2018, , 1415-1437.		0
45	Characterization and Interpretation of Fundamental DC Conduction and Dielectric Mechanisms in Paint/Modified Lead Titanate Composite Films. Advanced Science, Engineering and Medicine, 2018, 10, 542-550.	0.3	0
46	Improvement in ultraviolet based decontamination rate using meta-materials. Applied Surface Science, 2017, 417, 40-47.	3.1	11
47	Pd/SWCNTs based sensor for detection of hydrogen stable isotopes. , 2017, , .		0
48	Synthesis and characterization of integrated SWCNT-Pt-P ₂ O ₅ -based sensor platforms for absolute humidity measurement. , 2017, , .		0
49	Optimal sensor placement with mitigation strategy for water network systems under uncertainty. Computers and Chemical Engineering, 2017, 103, 91-102.	2.0	33
50	Single Wall Carbon Nanotubes Based Cryogenic Temperature Sensor Platforms. Sensors, 2017, 17, 2071.	2.1	22
51	Fogs: Physical Basis, Characteristic Properties, and Impacts on the Environment and Human Health. Water (Switzerland), 2017, 9, 807.	1.2	43
52	Identification and Analysis of Hazardous Materials Using Optical Spectroscopy. Optics and Photonics Journal, 2017, 07, 6-17.	0.3	3
53	Sensing environmental contaminants using carbon nanofibers doped tin-oxide composites. Surface Engineering and Applied Electrochemistry, 2016, 52, 8-13.	0.3	0
54	SWCNT-Pt-P ₂ O ₅ -Based Sensor for Humidity Measurements. IEEE Sensors Journal, 2016, 16, 7593-7599.	2.4	6

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55	Nanofibers for Tissue Engineering and Regenerative Medicine. IFMBE Proceedings, 2016, , 319-322.	0.2	7
56	Monitoring Water Contaminants: a Case Study for the Republic of Moldova. Polish Journal of Environmental Studies, 2016, 25, 221-230.	0.6	10
57	Environmental Risk Assessment of Heavy Metal Pollution in Armenian River Ecosystems: Case Study of Lake Sevan and Debed River Catchment Basins. Polish Journal of Environmental Studies, 2016, 25, 2387-2399.	0.6	19
58	Mitigating Unconventional Cyber-Warfare. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2016, , 238-260.	0.4	0
59	Modeling River Ecosystem Vulnerability Assessments Due to Climate Change: Case Study of Armenia. Polish Journal of Environmental Studies, 2015, 24, .	0.6	3
60	Nanofibers for the Detection of VOCs. NATO Science for Peace and Security Series A: Chemistry and Biology, 2015, , 159-165.	0.5	4
61	On the Synthesis and Characterization of Silica-Doped/Sulfonated Poly-(2,6-Dimethyl-1,4-Phenylene) Tj ETQq1 1 0.784314 rgBT /Over	0.8	5
62	Advanced sciences convergence based methods for surveillance of emerging trends in science, technology, and intelligence. Foresight, 2014, 16, 17-36.	1.2	14
63	A method for fast and contactless control of raw materials. Ceramics International, 2013, 39, 2903-2907.	2.3	8
64	Ecosystem of Innovations in Nanomaterials Based CBRNE Sensors and Threat Mitigation. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 3-25.	0.2	3
65	Real-Time Monitoring of Water Contaminants for Situation Awareness Using Electromagnetic Field Sensing System. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 233-241.	0.2	1
66	Technological Innovations to Counter CBRNE Threat Vectors and Ecotage. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 3-23.	0.5	0
67	Sensors for water safety and security. Surface Engineering and Applied Electrochemistry, 2012, 48, 478-486.	0.3	7
68	Real Time Detection of Foodborne Pathogens. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 149-158.	0.5	3
69	Recent Advances in Point-of-Access Water Quality Monitoring. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 261-268.	0.5	6
70	Co-operative Generation of Entangled Photons and Its Application in Quantum Cryptography. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 303-314.	0.5	0
71	Fast, Contactless Monitoring of the Chemical Composition of Raw Materials. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 185-189.	0.5	0
72	Modern Methods of Real-Time Gamma Radiation Monitoring for General Personal Protection. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 389-395.	0.5	0

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73	Sensors for water safety and security. , 2011, , .		3
74	Emerging Potential and Challenges of Convergence, Heterogeneity, and Hierarchical Integration of Nanotechnologies in Commercial Applications. Materials Research Society Symposia Proceedings, 2011, 1353, 124501.	0.1	0
75	ON THE DRAIN CURRENT SATURATION IN CARBON NANOTUBE FIELD EFFECT TRANSISTORS. Nano, 2010, 05, 161-165.	0.5	6
76	Advanced Sciences Convergence for Defense and Security. Materials Research Society Symposia Proceedings, 2009, 1209, 1.	0.1	2
77	Nanomaterials, Nanotechnology. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 195-207.	0.1	22
78	Nanomaterials Nexus in Environmental, Human Health, and Sustainability. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 105-118.	0.2	2
79	GUEST EDITORIAL " APPLICATIONS OF NANOTECHNOLOGIES IN ENVIRONMENTAL PROTECTION AND POLLUTION, PART 2: MATERIALS CHARACTERIZATION AND DEVELOPMENT. Nano, 2008, 03, 311-312.	0.5	0
80	PROTON-CONDUCTING POLYMERS AS ELECTROLYTE FOR FUEL CELLS. Nano, 2008, 03, 381-386.	0.5	6
81	Geospatial Remote Sensing Using Advanced Sensor Systems. Materials Research Society Symposia Proceedings, 2008, 1076, 1.	0.1	0
82	GUEST EDITORIAL " APPLICATIONS OF NANOTECHNOLOGIES IN ENVIRONMENTAL PROTECTION AND POLLUTION, PART 1: SENSING, REMEDIATION, TOXICOLOGY, AND CONTROL. Nano, 2008, 03, 203-204.	0.5	0
83	ELECTROCHEMICAL DNA SENSOR TECHNOLOGY FOR MONITORING OF DRUG-DNA INTERACTIONS. Nano, 2008, 03, 229-232.	0.5	6
84	Green Nanotechnologies for Responsible Manufacturing. Materials Research Society Symposia Proceedings, 2008, 1106, 1.	0.1	11
85	NANOTECHNOLOGY IN MEDICINE AND HEALTH SCIENCES. Nano, 2008, 03, 263-269.	0.5	8
86	Controlled formation of multiple Taylor cones in electrospinning process. Applied Physics Letters, 2007, 90, 093115.	1.5	56
87	Nanostructures in environmental pollution detection, monitoring, and remediation. Science and Technology of Advanced Materials, 2007, 8, 47-59.	2.8	166
88	Carbon Nanotubes Based Devices and Sensors. Materials and Manufacturing Processes, 2006, 21, 710-716.	2.7	13
89	Nanocomposites based on functionalized nanotubes in polyaniline matrix by plasma polymerization. Progress in Solid State Chemistry, 2006, 34, 181-189.	3.9	22
90	On the computer-aided modelling of analyte-receptor interactions for an efficient sensor design. Thin Solid Films, 2006, 495, 312-315.	0.8	19

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91	Nanobiomaterials For Controlled Release Of Drugs & Vaccine Delivery. Materials Research Society Symposia Proceedings, 2006, 920, 1.	0.1	7
92	Approach To An Interdisciplinary Bionanotechnology Education Program: International Network Perspective. Materials Research Society Symposia Proceedings, 2006, 931, 1.	0.1	0
93	Nanostructured and nanoscale devices, sensors and detectors. Science and Technology of Advanced Materials, 2005, 6, 312-318.	2.8	194
94	Field-emission characteristics of carbon nanotubes and their applications in photonic devices. Journal of Materials Science: Materials in Electronics, 2003, 14, 653-656.	1.1	19
95	Polycrystalline silicon thin films obtained by metal-induced crystallization. Journal of Materials Science: Materials in Electronics, 2003, 14, 747-748.	1.1	8
96	Persistent photoconductivity in low-energy argon ion-bombarded semi-insulating GaAs. Applied Physics Letters, 1991, 58, 1193-1195.	1.5	5
97	Effects of low energy Ar+ ion bombardment on GaAs. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1991, 9, 489-500.	1.7	3
98	Observation of some new traps introduced by low-energy Ar+ ion bombardment on n-GaAs. Nuclear Instruments & Methods in Physics Research B, 1991, 59-60, 1023-1027.	0.6	2
99	Optical and electrical investigation of ion bombarded GaAs. IEEE Transactions on Components, Hybrids and Manufacturing Technology, 1990, 13, 617-622.	0.4	2
100	Determination of the minority carrier diffusion length in silicon solar cells. International Journal of Electronics, 1979, 46, 529-533.	0.9	2
101	MOS-accumulation layer solar cell. , 1979, , .		0
102	Nanoscale Materials, Devices, and Systems for Sensing, Detection, and Environmental Pollution Monitoring and Mitigation. , 0, , .		3