

Stanisław Wacławek

List of Publications by Year in descending order

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Version: 2024-02-01

88

papers

3,629

citations

172457

29

h-index

138484

58

g-index

89

all docs

89

docs citations

89

times ranked

3468

citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Synthesis, Characterization and Physicochemical Properties of Biogenic Silver Nanoparticle-Encapsulated Chitosan Bionanocomposites. <i>Polymers</i> , 2022, 14, 463. | 4.5 | 7 |
| 2 | Making waves: Defining advanced reduction technologies from the perspective of water treatment. <i>Water Research</i> , 2022, 212, 118101. | 11.3 | 16 |
| 3 | Enhanced degradation of sulfamethoxazole by a modified nano zero-valent iron with a β -cyclodextrin polymer: Mechanism and toxicity evaluation. <i>Science of the Total Environment</i> , 2022, 817, 152888. | 8.0 | 26 |
| 4 | Sustainable and safer nanoclay composites for multifaceted applications. <i>Green Chemistry</i> , 2022, 24, 3081-3114. | 9.0 | 28 |
| 5 | Dialdehyde Modified Tree Gum Karaya: A Sustainable Green Crosslinker for Gelatin-Based Edible Films. <i>Advanced Sustainable Systems</i> , 2022, 6, . | 5.3 | 4 |
| 6 | Pd decorated Co-Ni nanowires as a highly efficient catalyst for direct ethanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 41279-41293. | 7.1 | 5 |
| 7 | Is Active Moss Biomonitoring Comparable to Air Filter Standard Sampling?. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4706. | 2.6 | 3 |
| 8 | Aegle marmelos Leaf Extract Based Synthesis of Nanoiron and Nanoiron+Au Particles for Degradation of Methylene Blue. <i>Ecological Chemistry and Engineering S</i> , 2022, 29, 7-14. | 1.5 | 0 |
| 9 | Activation of Peroxydisulfate by Bimetallic Nano Zero-Valent Iron for Waste-Activated Sludge Disintegration. <i>Catalysts</i> , 2022, 12, 590. | 3.5 | 0 |
| 10 | Developing functional carbon nitride materials for efficient peroxymonosulfate activation: From interface catalysis to irradiation synergy. , 2022, 1, 21-33. | | 1 |
| 11 | Commemorative Issue in Honor of Professor Gerhard Ertl on the Occasion of His 85th Birthday. <i>Catalysts</i> , 2022, 12, 624. | 3.5 | 1 |
| 12 | Surface modification of zero-valent iron nanoparticles with β -cyclodextrin for 4-nitrophenol conversion. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 655-662. | 9.4 | 26 |
| 13 | Modification of nZVI with a bio-conjugate containing amine and carbonyl functional groups for catalytic activation of persulfate. <i>Separation and Purification Technology</i> , 2021, 257, 117880. | 7.9 | 26 |
| 14 | Influence of catalyst zeta potential on the activation of persulfate. <i>Chemical Communications</i> , 2021, 57, 7814-7817. | 4.1 | 13 |
| 15 | Eco-Friendly and Economic, Adsorptive Removal of Cationic and Anionic Dyes by Bio-Based Karaya Gum-Chitosan Sponge. <i>Polymers</i> , 2021, 13, 251. | 4.5 | 38 |
| 16 | Electrospun fibers based on botanical, seaweed, microbial, and animal sourced biomacromolecules and their multidimensional applications. <i>International Journal of Biological Macromolecules</i> , 2021, 171, 130-149. | 7.5 | 35 |
| 17 | Hierarchically Porous Bio-Based Sustainable Conjugate Sponge for Highly Selective Oil/Organic Solvent Absorption. <i>Advanced Functional Materials</i> , 2021, 31, 2100640. | 14.9 | 43 |
| 18 | Do We Still Need a Laboratory to Study Advanced Oxidation Processes? A Review of the Modelling of Radical Reactions used for Water Treatment. <i>Ecological Chemistry and Engineering S</i> , 2021, 28, 11-28. | 1.5 | 16 |

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|----|--|------|-----------|
| 19 | Biomacromolecule assembly based on gum kondagogu-sodium alginate composites and their expediency in flexible packaging films. <i>International Journal of Biological Macromolecules</i> , 2021, 177, 526-534. | 7.5 | 33 |
| 20 | Greener Catalysis for Environmental Applications. <i>Catalysts</i> , 2021, 11, 585. | 3.5 | 3 |
| 21 | Chitosan/Gelatin/Silver Nanoparticles Composites Films for Biodegradable Food Packaging Applications. <i>Polymers</i> , 2021, 13, 1680. | 4.5 | 77 |
| 22 | Cinnamomum tamala Leaf Extract Stabilized Zinc Oxide Nanoparticles: A Promising Photocatalyst for Methylene Blue Degradation. <i>Nanomaterials</i> , 2021, 11, 1558. | 4.1 | 34 |
| 23 | Insights into paracetamol degradation in aqueous solutions by ultrasound-assisted heterogeneous electro-Fenton process: Key operating parameters, mineralization and toxicity assessment. <i>Separation and Purification Technology</i> , 2021, 266, 118533. | 7.9 | 113 |
| 24 | Alkenyl succinic anhydride modified tree-gum kondagogu: A bio-based material with potential for food packaging. <i>Carbohydrate Polymers</i> , 2021, 266, 118126. | 10.2 | 22 |
| 25 | Electrochemical activation of peroxides for treatment of contaminated water with landfill leachate: Efficacy, toxicity and biodegradability evaluation. <i>Chemosphere</i> , 2021, 279, 130610. | 8.2 | 95 |
| 26 | Selective spectrophotometric determination of peroxydisulfate based on a by-product formation. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130214. | 7.8 | 6 |
| 27 | Laser-synthesized Ag/TiO nanoparticles to integrate catalytic pollutant degradation and antifouling enhancement in nanofibrous membranes for oil/water separation. <i>Applied Surface Science</i> , 2021, 564, 150471. | 6.1 | 17 |
| 28 | Comparative investigation of acetaminophen degradation in aqueous solution by UV/Chlorine and UV/H ₂ O ₂ processes: Kinetics and toxicity assessment, process feasibility and products identification. <i>Chemosphere</i> , 2021, 285, 131455. | 8.2 | 48 |
| 29 | A comparative study of the degradation efficiency of chlorinated organic compounds by bimetallic zero-valent iron nanoparticles. <i>Environmental Science: Water Research and Technology</i> , 2021, 8, 162-172. | 2.4 | 16 |
| 30 | The Application of Active Biomonitoring with the Use of Mosses to Identify Polycyclic Aromatic Hydrocarbons in an Atmospheric Aerosol. <i>Molecules</i> , 2021, 26, 7258. | 3.8 | 8 |
| 31 | Effect of CoSi ₂ interfacial layer on the magnetic properties of Si CoSi ₂ Sm-Co thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 493, 165716. | 2.3 | 1 |
| 32 | Tree Gum-Graphene Oxide Nanocomposite Films as Gas Barriers. <i>ACS Applied Nano Materials</i> , 2020, 3, 633-640. | 5.0 | 33 |
| 33 | Synthesis of Ag nanoparticles by a chitosan-poly(3-hydroxybutyrate) polymer conjugate and their superb catalytic activity. <i>Carbohydrate Polymers</i> , 2020, 232, 115806. | 10.2 | 27 |
| 34 | Advances in biogenically synthesized shaped metal- and carbon-based nanoarchitectures and their medicinal applications. <i>Advances in Colloid and Interface Science</i> , 2020, 283, 102236. | 14.7 | 46 |
| 35 | A Polymeric Composite Material (rGO/PANI) for Acid Blue 129 Adsorption. <i>Polymers</i> , 2020, 12, 1051. | 4.5 | 10 |
| 36 | PVDF nanofibrous membranes modified via laser-synthesized Ag nanoparticles for a cleaner oily water separation. <i>Applied Surface Science</i> , 2020, 526, 146575. | 6.1 | 13 |

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|----|--|------|-----------|
| 37 | Microscopic Techniques for the Analysis of Micro and Nanostructures of Biopolymers and Their Derivatives. <i>Polymers</i> , 2020, 12, 512. | 4.5 | 59 |
| 38 | Electrospun fibers based on carbohydrate gum polymers and their multifaceted applications. <i>Carbohydrate Polymers</i> , 2020, 247, 116705. | 10.2 | 39 |
| 39 | Recycling non-food-grade tree gum wastes into nanoporous carbon for sustainable energy harvesting. <i>Green Chemistry</i> , 2020, 22, 1198-1208. | 9.0 | 33 |
| 40 | Benchtop ¹⁹ F NMR spectroscopy as a practical tool for testing of remedial technologies for the degradation of perfluorooctanoic acid, a persistent organic pollutant. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1160-1167. | 1.9 | 13 |
| 41 | Limitations and prospects of sulfate-radical based advanced oxidation processes. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103849. | 6.7 | 116 |
| 42 | UV-Catalyzed Persulfate Oxidation of an Anthraquinone Based Dye. <i>Catalysts</i> , 2020, 10, 456. | 3.5 | 20 |
| 43 | The Development and Challenges of Oxidative Abatement for Contaminants of Emerging Concern. , 2020, , 131-152. | | 5 |
| 44 | Development of ZnO Nanoflake Type Structures Using Silk Fibres as Template for Water Pollutants Remediation. <i>Polymers</i> , 2020, 12, 1151. | 4.5 | 6 |
| 45 | SYNERGISTIC EFFECT OF NANO ZERO-VALENT IRON AND CYCLODEXTRINS: A NANO-STRUCTURE FOR WATER PURIFICATION. , 2020, , . | | 2 |
| 46 | Other Chemical Reductive Methods. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , 2020, , 53-64. | 0.5 | 1 |
| 47 | Chemical Oxidation of Polycyclic Aromatic Hydrocarbons in Water By Ferrates(VI). <i>Ecological Chemistry and Engineering S</i> , 2020, 27, 529-542. | 1.5 | 2 |
| 48 | Radical Reactions and Their Application for Water Treatment. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , 2020, , 203-219. | 0.5 | 1 |
| 49 | A new method for assessment of the sludge disintegration degree with the use of differential centrifugal sedimentation. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3086-3093. | 2.2 | 10 |
| 50 | Waste-activated sludge disruption by dry ice: bench scale study and evaluation of heat phase transformations. <i>Environmental Science and Pollution Research</i> , 2019, 26, 26488-26499. | 5.3 | 9 |
| 51 | Chemical oxidation and reduction of hexachlorocyclohexanes: A review. <i>Water Research</i> , 2019, 162, 302-319. | 11.3 | 81 |
| 52 | Microwave-assisted sustainable co-digestion of sewage sludge and rapeseed cakes. <i>Energy Conversion and Management</i> , 2019, 199, 112012. | 9.2 | 14 |
| 53 | Gum Kondagogu/Reduced Graphene Oxide Framed Platinum Nanoparticles and Their Catalytic Role. <i>Molecules</i> , 2019, 24, 3643. | 3.8 | 21 |
| 54 | Improvement of the thermophilic anaerobic digestion and hygienisation of waste activated sludge by synergistic pretreatment. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 694-700. | 1.7 | 3 |

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|----|--|------|-----------|
| 55 | Bioplastic Fibers from Gum Arabic for Greener Food Wrapping Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 5900-5911. | 6.7 | 37 |
| 56 | The Use of a Biopolymer Conjugate for an Eco-Friendly One-Pot Synthesis of Palladium-Platinum Alloys. Polymers, 2019, 11, 1948. | 4.5 | 9 |
| 57 | Interfacial layer formation during high-temperature deposition of Sm-Co magnetic thin films on Si (100) substrates. Intermetallics, 2019, 106, 36-47. | 3.9 | 7 |
| 58 | Disintegration of Wastewater Activated Sludge (WAS) for Improved Biogas Production. Energies, 2019, 12, 21. | 3.1 | 31 |
| 59 | Laser-assisted synthesis of Fe-Cu oxide nanocrystals. Applied Surface Science, 2019, 469, 1007-1015. | 6.1 | 11 |
| 60 | Production of electrospun nanofibers based on graphene oxide/gum Arabic. International Journal of Biological Macromolecules, 2019, 124, 396-402. | 7.5 | 40 |
| 61 | Major Advances and Challenges in Heterogeneous Catalysis for Environmental Applications: A Review. Ecological Chemistry and Engineering S, 2018, 25, 9-34. | 1.5 | 58 |
| 62 | Synergetic disintegration of waste activated sludge: improvement of the anaerobic digestion and hygienization of sludge. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 1067-1074. | 1.7 | 8 |
| 63 | Green Synthesis of High Temperature Stable Anatase Titanium Dioxide Nanoparticles Using Gum Kondagogu: Characterization and Solar Driven Photocatalytic Degradation of Organic Dye. Nanomaterials, 2018, 8, 1002. | 4.1 | 68 |
| 64 | A poly(3-hydroxybutyrate)-chitosan polymer conjugate for the synthesis of safer gold nanoparticles and their applications. Green Chemistry, 2018, 20, 4975-4982. | 9.0 | 40 |
| 65 | Tree gum-based renewable materials: Sustainable applications in nanotechnology, biomedical and environmental fields. Biotechnology Advances, 2018, 36, 1984-2016. | 11.7 | 106 |
| 66 | Green synthesis of gold nanoparticles using Artemisia dracunculus extract: control of the shape and size by varying synthesis conditions. Environmental Science and Pollution Research, 2018, 25, 24210-24219. | 5.3 | 32 |
| 67 | Gum karaya (Sterculia urens) stabilized zero-valent iron nanoparticles: characterization and applications for the removal of chromium and volatile organic pollutants from water. RSC Advances, 2017, 7, 13997-14009. | 3.6 | 44 |
| 68 | TiO ₂ immobilised on biopolymer nanofibers for the removal of bisphenol A and diclofenac from water. Ecological Chemistry and Engineering S, 2017, 24, 417-429. | 1.5 | 10 |
| 69 | Chemistry of persulfates in water and wastewater treatment: A review. Chemical Engineering Journal, 2017, 330, 44-62. | 12.7 | 1,320 |
| 70 | Stabilization of Iron (Micro)Particles with Polyhydroxybutyrate for In Situ Remediation Applications. Applied Sciences (Switzerland), 2016, 6, 417. | 2.5 | 13 |
| 71 | The Impact of Oxone on Disintegration and Dewaterability of Waste Activated Sludge. Water Environment Research, 2016, 88, 152-157. | 2.7 | 18 |
| 72 | Green Synthesis: Nanoparticles and Nanofibres Based on Tree Gums for Environmental Applications. Ecological Chemistry and Engineering S, 2016, 23, 533-557. | 1.5 | 30 |

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|----|--|------|-----------|
| 73 | Electrospun fibers based on Arabic, karaya and kondagogu gums. International Journal of Biological Macromolecules, 2016, 91, 299-309. | 7.5 | 54 |
| 74 | Electrospun membrane composed of poly[acrylonitrile-co-(methyl acrylate)-co-(itaconic acid)] terpolymer and ZVI nanoparticles and its application for the removal of arsenic from water. RSC Advances, 2016, 6, 110288-110300. | 3.6 | 20 |
| 75 | Chemical Degradation of PCDD/F in Contaminated Sediment. Ecological Chemistry and Engineering S, 2016, 23, 473-482. | 1.5 | 15 |
| 76 | Remediation of hexachlorocyclohexanes by electrochemically activated persulfates. Environmental Science and Pollution Research, 2016, 23, 765-773. | 5.3 | 44 |
| 77 | Remediation of hexachlorocyclohexanes by cobalt-mediated activation of peroxymonosulfate. Desalination and Water Treatment, 2016, 57, 26274-26279. | 1.0 | 23 |
| 78 | A novel approach for simultaneous improvement of dewaterability, post-digestion liquor properties and toluene removal from anaerobically digested sludge. Chemical Engineering Journal, 2016, 291, 192-198. | 12.7 | 51 |
| 79 | The impact of peroxydisulphate and peroxymonosulphate on disintegration and settleability of activated sludge. Environmental Technology (United Kingdom), 2016, 37, 1296-1304. | 2.2 | 19 |
| 80 | Use of Various Zero Valent Irons for Degradation of Chlorinated Ethenes and Ethanes. Ecological Chemistry and Engineering S, 2015, 22, 577-587. | 1.5 | 15 |
| 81 | Simple spectrophotometric determination of monopersulfate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 928-933. | 3.9 | 121 |
| 82 | Impact of peroxydisulphate on disintegration and sedimentation properties of municipal wastewater activated sludge. Chemical Papers, 2015, 69, . | 2.2 | 14 |
| 83 | Mesophilic-thermophilic fermentation process of waste activated sludge after hybrid disintegration. Ecological Chemistry and Engineering S, 2014, 21, 125-136. | 1.5 | 15 |
| 84 | Atmospheric Chemistry and Climate in the Anthropocene / Chemia Atmosferyczna I Klimat W Antropocenie. Chemistry, Didactics, Ecology, Metrology, 2014, 19, 9-28. | 0.6 | 13 |
| 85 | Impact of Alkalization of Surplus Activated Sludge on Biogas Production. Ecological Chemistry and Engineering S, 2013, 20, 343-351. | 1.5 | 12 |
| 86 | Alkalization as a method of preliminary hydrolysis of waste activated sludge before the anaerobic digestion process. Polish Journal of Materials and Environmental Engineering, 0, 1(21), 16-26. | 0.0 | 0 |
| 87 | Enhancement of stability and reactivity of nanosized zero-valent iron with polyhydroxybutyrate. , 0, 69, 302-307. | | 5 |
| 88 | High Barrier, Biodegradable Nanocomposite Films Based on Clay-Coated and Chemically Modified Gum Kondagogu. Macromolecular Materials and Engineering, 0, , 2200008. | 3.6 | 0 |