

# Anastasia Hiskia

## List of Publications by Citations

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|--------------------|-------------------------|----------------|-----------------|
| 100<br>papers      | 4,224<br>citations      | 39<br>h-index  | 64<br>g-index   |
| 106<br>ext. papers | 4,605<br>ext. citations | 7.6<br>avg, IF | 5.17<br>L-index |

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 100 | Comparison of the photoredox properties of polyoxometallates and semiconducting particles. <i>Chemical Society Reviews</i> , <b>2001</b> , 30, 62-69  | 58.5 | 425       |
| 99  | Synthesis of Metal Nanoparticles by Using Polyoxometalates as Photocatalysts and Stabilizers. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 1911   | 16.4 | 248       |
| 98  | Preparation, characterization and photocatalytic activity of nanocrystalline thin film TiO <sub>2</sub> catalysts towards 3,5-dichlorophenol degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2002</b> , 149, 237-245                           | 4.7  | 180       |
| 97  | Efficient removal of microcystin-LR by UV-C/H <sub>2</sub> O <sub>2</sub> in synthetic and natural water samples. <i>Water Research</i> , <b>2012</b> , 46, 1501-10   | 12.5 | 178       |
| 96  | Destruction of microcystins by conventional and advanced oxidation processes: A review. <i>Separation and Purification Technology</i> , <b>2012</b> , 91, 3-17  | 8.3  | 156       |
| 95  | Photocatalytic oxidation of organic compounds by polyoxometalates of molybdenum and tungsten. Catalyst regeneration by dioxygen. <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 163-167   | 5.1  | 134       |
| 94  | Assessment of the roles of reactive oxygen species in the UV and visible light photocatalytic degradation of cyanotoxins and water taste and odor compounds using C-TiO <sub>2</sub> . <i>Water Research</i> , <b>2016</b> , 90, 52-61  | 12.5 | 131       |
| 93  | A review on cylindrospermopsin: the global occurrence, detection, toxicity and degradation of a potent cyanotoxin. <i>Environmental Sciences: Processes and Impacts</i> , <b>2013</b> , 15, 1979-2003   | 4.3  | 128       |
| 92  | Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins. <i>Toxins</i> , <b>2018</b> , 10,  | 4.9  | 109       |
| 91  | Identification of photocatalytic degradation products of diazinon in TiO <sub>2</sub> aqueous suspensions using GC/MS/MS and LC/MS with quadrupole time-of-flight mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2003</b> , 14, 803-17    | 3.5  | 101       |
| 90  | Preparation, fractal surface morphology and photocatalytic properties of TiO <sub>2</sub> films. <i>Thin Solid Films</i> , <b>1999</b> , 357, 173-178   | 2.2  | 93        |
| 89  | New SPE-LC-MS/MS method for simultaneous determination of multi-class cyanobacterial and algal toxins. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 323, 56-66   | 12.8 | 87        |
| 88  | Photocatalytic reductive-oxidative degradation of Acid Orange 7 by polyoxometalates. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 86, 98-107   | 21.8 | 81        |
| 87  | Photolytic degradation of all chlorophenols with polyoxometallates and H <sub>2</sub> O <sub>2</sub> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2002</b> , 148, 191-197  | 4.7  | 78        |
| 86  | New aspect of the mechanism of photocatalytic oxidation of organic compounds by polyoxometalates in aqueous solutions. The selective photooxidation of propan-2-ol to propanone: The role of OH radicals. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 437-440 | 3.6  | 77        |
| 85  | Photocatalytic reduction of chromium and oxidation of organics by polyoxometalates. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 62, 28-34   | 21.8 | 73        |
| 84  | Contribution to water purification using polyoxometalates. Aromatic derivatives, chloroacetic acids. <i>Journal of Molecular Catalysis A</i> , <b>1996</b> , 114, 191-200   |      | 73        |

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|----|--|------|----|
| 83 | Destruction of microcystins (cyanotoxins) by UV-254 nm-based direct photolysis and advanced oxidation processes (AOPs): influence of variable amino acids on the degradation kinetics and reaction mechanisms. <i>Water Research</i> , <b>2015</b> , 74, 227-38  | 12.5 | 70 |
| 82 | Photocatalytic reduction and recovery of copper by polyoxometalates. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 5355-62   | 10.3 | 65 |
| 81 | Photocatalysis by polyoxometallates and TiO <sub>2</sub> : A comparative study. <i>Catalysis Today</i> , <b>2007</b> , 124, 149-155  | 5.3  | 64 |
| 80 | Light Induced Elimination of Mono- and Polychlorinated Phenols From Aqueous Solutions by PW12O <sub>40</sub> 3-. The Case of 2,4,6-Trichlorophenol. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 2024-2028  | 10.3 | 62 |
| 79 | Can we effectively degrade microcystins?--Implications on human health. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2011</b> , 11, 19-37   | 2.2  | 59 |
| 78 | Determination of microcystins and nodularin (cyanobacterial toxins) in water by LC-MS/MS. Monitoring of Lake Marathonas, a water reservoir of Athens, Greece. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 263 Pt 1, 105-15   | 12.8 | 57 |
| 77 | Photocatalytic Degradation of Microcystin-LR and Off-Odor Compounds in Water under UV-A and Solar Light with a Nanostructured Photocatalyst Based on Reduced Graphene Oxide/TiO <sub>2</sub> Composite. Identification of Intermediate Products.. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 13991-14000 | 3.9  | 57 |
| 76 | Light-cured or chemically cured orthodontic adhesive resins? A selection based on the degree of cure, monomer leaching, and cytotoxicity. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2005</b> , 127, 413-9; quiz 516   | 2.1  | 56 |
| 75 | Sonolytic, photolytic, and photocatalytic decomposition of atrazine in the presence of polyoxometalates. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 2358-64   | 10.3 | 55 |
| 74 | Photolytic and photocatalytic decomposition of fenitrothion by PW12O <sub>40</sub> 3- and TiO <sub>2</sub> : a comparative study. <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 48, 175-183  | 21.8 | 50 |
| 73 | Photocatalytic reduction and recovery of silver using polyoxometalates. <i>Applied Catalysis B: Environmental</i> , <b>2003</b> , 42, 305-315  | 21.8 | 49 |
| 72 | Photocatalytic degradation of lindane by polyoxometalates: Intermediates and mechanistic aspects. <i>Catalysis Today</i> , <b>2010</b> , 151, 119-124  | 5.3  | 48 |
| 71 | Photocatalytic degradation of cylindrospermopsin under UV-A, solar and visible light using TiO <sub>2</sub> . Mineralization and intermediate products. <i>Chemosphere</i> , <b>2015</b> , 119 Suppl, S89-94   | 8.4  | 45 |
| 70 | Assessment of bisphenol-A release from orthodontic adhesives. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2007</b> , 131, 72-5  | 2.1  | 45 |
| 69 | On the photooxidative behavior of TiO <sub>2</sub> and PW12O <sub>40</sub> 3- OH radicals versus holes. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 68, 139-146  | 21.8 | 45 |
| 68 | Reduction and recovery of metals from aqueous solutions with polyoxometallates. <i>New Journal of Chemistry</i> , <b>2001</b> , 25, 361-363  | 3.6  | 45 |
| 67 | Photocatalytic reduction of metals using polyoxometallates: recovery of metals or synthesis of metal nanoparticles. <i>Comptes Rendus Chimie</i> , <b>2006</b> , 9, 851-857  | 2.7  | 44 |
| 66 | Determination of Organophosphorus Pesticide Residues in Greek Virgin Olive Oil by Capillary Gas Chromatography. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 570-574  | 5.7  | 44 |

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|----|--|------|----|
| 65 | Determination of organochlorine pesticide residues in honey, applying solid phase extraction with RP-C18 material. <i>Analyst, The</i> , <b>1999</b> , 124, 473-5  | 5    | 42 |
| 64 | Occurrence and diversity of cyanotoxins in Greek lakes. <i>Scientific Reports</i> , <b>2018</b> , 8, 17877   | 4.9  | 42 |
| 63 | Toxic cyanobacteria and cyanotoxins in European waters [Recent progress achieved through the CYANOCOST Action and challenges for further research. <i>Advances in Oceanography and Limnology</i> , <b>2017</b> , 8,  | 1.3  | 39 |
| 62 | Photocatalytic reduction and recovery of mercury by polyoxometalates. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 4242-8   | 10.3 | 39 |
| 61 | A Collaborative Evaluation of LC-MS/MS Based Methods for BMAA Analysis: Soluble Bound BMAA Found to Be an Important Fraction. <i>Marine Drugs</i> , <b>2016</b> , 14,  | 6    | 39 |
| 60 | Development of an integrated laboratory system for the monitoring of cyanotoxins in surface and drinking waters. <i>Toxicon</i> , <b>2010</b> , 55, 979-89   | 2.8  | 37 |
| 59 | Photocatalytic reductive destruction of azo dyes by polyoxometallates: Naphthol blue black. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2007</b> , 188, 272-278  | 4.7  | 37 |
| 58 | Photolytic and photocatalytic decomposition of bromomethanes in irradiated aqueous solutions. <i>Applied Catalysis B: Environmental</i> , <b>1999</b> , 21, 191-202  | 21.8 | 37 |
| 57 | Polyoxometallate photocatalysis for decontaminating the aquatic environment from organic and inorganic pollutants. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2006</b> , 86, 233-242  | 1.8  | 35 |
| 56 | Development of a fast and selective method for the sensitive determination of anatoxin-a in lake waters using liquid chromatography-tandem mass spectrometry and phenylalanine-d5 as internal standard. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 397, 2245-52 | 4.4  | 33 |
| 55 | Selective photocatalytic reduction/Recovery of palladium using polyoxometallates. <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 52, 41-48  | 21.8 | 33 |
| 54 | Rate-Redox-Controlled Size-Selective Synthesis of Silver Nanoparticles Using Polyoxometalates. <i>European Journal of Inorganic Chemistry</i> , <b>2008</b> , 2008, 5579-5586  | 2.3  | 32 |
| 53 | Photocatalytic degradation of water taste and odour compounds in the presence of polyoxometalates and TiO <sub>2</sub> : Intermediates and degradation pathways. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2014</b> , 286, 1-9                           | 4.7  | 30 |
| 52 | Polyoxometallates as effective photocatalysts in water purification from pesticides. <i>International Journal of Photoenergy</i> , <b>2004</b> , 6, 227-231  | 2.1  | 26 |
| 51 | Photocatalytic synthesis of Se nanoparticles using polyoxometalates. <i>Catalysis Today</i> , <b>2009</b> , 144, 2-6   | 5.3  | 24 |
| 50 | Purine 5S8-cyclo-2Sdeoxynucleoside lesions: formation by radical stress and repair in human breast epithelial cancer cells. <i>Free Radical Research</i> , <b>2017</b> , 51, 470-482   | 4    | 20 |
| 49 | Diversity, Cyanotoxin Production, and Bioactivities of Cyanobacteria Isolated from Freshwaters of Greece. <i>Toxins</i> , <b>2019</b> , 11,  | 4.9  | 19 |
| 48 | Photocatalytic transformations of CCl <sub>3</sub> Br, CBr <sub>3</sub> F, CHCl <sub>2</sub> Br and CH <sub>2</sub> BrCl in aerobic and anaerobic conditions. <i>Applied Catalysis B: Environmental</i> , <b>2001</b> , 29, 23-34  | 21.8 | 19 |

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|----|---|------|----|
| 47 | Selective photocatalytic oxidation of alcohols by heteropolytungstates. <i>Polyhedron</i> , <b>1988</b> , 7, 477-481  | 2.7  | 19 |
| 46 | First report of <i>Aphanizomenon favaloroi</i> occurrence in Europe associated with saxitoxins and a massive fish kill in Lake Vistonis, Greece. <i>Marine and Freshwater Research</i> , <b>2017</b> , 68, 793  | 2.2  | 18 |
| 45 | Neurotoxin BMAA and its isomeric amino acids in cyanobacteria and cyanobacteria-based food supplements. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 365, 346-365  | 12.8 | 18 |
| 44 | Development of a rapid and sensitive method for the simultaneous determination of 1,2-dibromoethane, 1,4-dichlorobenzene and naphthalene residues in honey using HS-SPME coupled with GC-MS. <i>Analytica Chimica Acta</i> , <b>2008</b> , 617, 64-71 | 6.6  | 17 |
| 43 | Monitoring a newly re-born patient: water quality and cyanotoxin occurrence in a reconstructed shallow Mediterranean lake. <i>Advances in Oceanography and Limnology</i> , <b>2017</b> , 8,   | 1.3  | 15 |
| 42 | Synthesis of Metal Nanoparticles by Using Polyoxometalates as Photocatalysts and Stabilizers. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 1991  | 3.6  | 15 |
| 41 | A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. <i>Scientific Data</i> , <b>2018</b> , 5, 180226   | 8.2  | 15 |
| 40 | A Greek <i>Cylindrospermopsis raciborskii</i> strain: Missing link in tropic invader's phylogeography tale. <i>Harmful Algae</i> , <b>2018</b> , 80, 96-106   | 5.3  | 15 |
| 39 | Leptothoe, a new genus of marine cyanobacteria (Synechococcales) and three new species associated with sponges from the Aegean Sea. <i>Journal of Phycology</i> , <b>2019</b> , 55, 882-897   | 3    | 14 |
| 38 | New microginins from cyanobacteria of Greek freshwaters. <i>Chemosphere</i> , <b>2020</b> , 248, 125961   | 8.4  | 14 |
| 37 | Photocatalytic Degradation of Lindane in Aqueous Solution. <i>Pest Management Science</i> , <b>1997</b> , 50, 171-174   |      | 14 |
| 36 | Photocatalytic mineralization of chlorinated organic pollutants in water by polyoxometallates. Determination of intermediates and final degradation products. <i>Research on Chemical Intermediates</i> , <b>2000</b> , 26, 235-251                   | 2.8  | 14 |
| 35 | Photocatalytic processes by polyoxometalates. Splitting of water. The role of dioxygen. <i>Molecular Engineering</i> , <b>1993</b> , 3, 231-239   |      | 14 |
| 34 | Organochlorine pesticides and triazines in the drinking water of Athens. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>1996</b> , 57, 250-7  | 2.7  | 13 |
| 33 | Sources and Occurrence of Cyanotoxins Worldwide. <i>Environmental Pollution</i> , <b>2010</b> , 101-127   | 0    | 13 |
| 32 | Membrane Lipidome Reorganization and Accumulation of Tissue DNA Lesions in Tumor-Bearing Mice: An Exploratory Study. <i>Cancers</i> , <b>2019</b> , 11,   | 6.6  | 11 |
| 31 | Multi-electron reduction of Wells-Dawson polyoxometalate films onto metallic, semiconducting and dielectric substrates. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 21, 427-437  | 3.6  | 10 |
| 30 | Diversity of cyanobacteria and the presence of cyanotoxins in the epilimnion of Lake Yerevan (Armenia). <i>Toxicon</i> , <b>2018</b> , 150, 28-38   | 2.8  | 9  |

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| 29 | Photocatalytic processes with tungsten oxygen anion clusters. <i>Frontiers in Bioscience - Landmark</i> , <b>2003</b> , 8, s813-25  | 2.8  | 9 |
| 28 | Synthesis of metal nanoparticles by using polyoxometalates as photocatalysts and stabilizers. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 1911-4   | 16.4 | 9 |
| 27 | Lessons from the Uffe Case <b>2017</b> , 298-308  |      | 6 |
| 26 | Determination of Acidic Pesticides in the Drinking Water of Greece Using Capillary Gas Chromatography-Mass Spectrometry. <i>Water, Air, and Soil Pollution</i> , <b>1998</b> , 104, 259-268                           | 2.6  | 6 |
| 25 | CHAPTER 1:Photocatalytic Degradation of Organic Contaminants in Water: Process Optimization and Degradation Pathways. <i>RSC Energy and Environment Series</i> , <b>2016</b> , 1-34                                   | 0.6  | 6 |
| 24 | Kinetic and mechanistic investigation of water taste and odor compound 2-isopropyl-3-methoxy pyrazine degradation using UV-A/Chlorine process. <i>Science of the Total Environment</i> , <b>2020</b> , 732, 138404    | 10.2 | 5 |
| 23 | Determination of Cyanotoxins by High-Performance Liquid Chromatography with Photodiode Array <b>2017</b> , 203-211  |      | 3 |
| 22 | β-Methylamino-L-alanine interferes with nitrogen assimilation in the cyanobacterium, non-BMAA producer, <i>Synechococcus</i> sp. TAU-MAC 0499. <i>Toxicon</i> , <b>2020</b> , 185, 147-155                            | 2.8  | 3 |
| 21 | Solid-Phase Extraction of Microcystins and Nodularin from Drinking Water <b>2017</b> , 354-357  |      | 2 |
| 20 | Determination of Microcystins and Nodularin in Filtered and Drinking Water by LC-MS/MS <b>2017</b> , 372-378  |      | 2 |
| 19 | Stratification strength and light climate explain variation in chlorophyll a at the continental scale in a European multilake survey in a heatwave summer. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 4314 | 4.8  | 2 |
| 18 | Cyanobacterial Toxins and Peptides in Lake Vegoritis, Greece. <i>Toxins</i> , <b>2021</b> , 13,   | 4.9  | 2 |
| 17 | Taste and Odour Compounds Produced by Cyanobacteria <b>2017</b> , 196-201   |      | 1 |
| 16 | Protein Phosphatase Inhibition Assays <b>2017</b> , 267-271   |      | 1 |
| 15 | Determination of Anatoxin-a in Filtered and Drinking Water by LC-MS/MS <b>2017</b> , 408-412  |      | 1 |
| 14 | Basic Validation Protocol for the Analysis of Cyanotoxins in Environmental Samples <b>2017</b> , 481-485  |      | 1 |
| 13 | Fragmentation mass spectra dataset of linear cyanopeptides - microginins. <i>Data in Brief</i> , <b>2020</b> , 31, 105825   | 2    | 1 |
| 12 | Transformation Products of Hazardous Cyanobacterial Metabolites in Water <b>2014</b> , 675-708  |      | 1 |

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|----|---|-----|---|
| 11 | Thermal and photochemical catalysis by polyoxometallates Regeneration of catalyst by dioxygen. <i>Studies in Surface Science and Catalysis</i> , <b>1991</b> , 66, 429-435                                | 1.8 | 1 |
| 10 | Determination of Geosmin and 2-Methylisoborneol in Water by HS-SPME-GC/MS <b>2017</b> , 469-474   |     | 0 |
| 9  | Sublethal exposure to <i>Microcystis aeruginosa</i> extracts during embryonic development reduces aerobic swimming capacity in juvenile zebrafish.. <i>Aquatic Toxicology</i> , <b>2022</b> , 243, 106074 | 5.1 | 0 |
| 8  | Liquid ChromatographyMass Spectrometry <b>2017</b> , 218-257  |     |   |
| 7  | Method Validation Guidelines for the Analysis of Cyanotoxins <b>2017</b> , 285-291  |     |   |
| 6  | Quantitative Screening of Microcystins and Nodularin in Water Samples with Commercially Available ELISA Kits <b>2017</b> , 390-392  |     |   |
| 5  | Quantitative Screening of Microcystins and Nodularin in Water Samples with Commercially Available PPIA Kits <b>2017</b> , 393-395   |     |   |
| 4  | Solid-Phase Extraction of Cylindrospermopsin from Filtered and Drinking Water <b>2017</b> , 396-398   |     |   |
| 3  | Determination of Cylindrospermopsin in Filtered and Drinking Water by LC-MS/MS <b>2017</b> , 399-404  |     |   |
| 2  | Solid-Phase Extraction of Anatoxin-a from Filtered and Drinking Water <b>2017</b> , 405-407   |     |   |
| 1  | Radiolytic degradation of 2-methylisoborneol and geosmin in water: Reactive radical species and transformation pathways. <i>Chemical Engineering Journal Advances</i> , <b>2021</b> , 8, 100196           | 3.6 |   |