# Jorge Luis GuzmÃ¡n Mar

List of Publications by Year
in descending order



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|---|---|---|---|
| 76 papers | 2,631 citations | 159525 30 h-index | 206029 48 g-index |
| 79 all docs | 79 docs citations | 79 times ranked | 3552 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Determination of optimum operating parameters for Acid Yellow 36 decolorization by electro-Fenton process using BDD cathode. Chemical Engineering Journal, 2010, 160, 199-206. | 6.6 | 186 |
| 2 | Solar photocatalytic activity of TiO2 modified with WO3 on the degradation of an organophosphorus pesticide. Journal of Hazardous Materials, 2013, 263, 36-44. | 6.5 | 163 |
| 3 | Arsenic accumulation in maize crop (Zea mays): A review. Science of the Total Environment, 2014, 488-489, 176-187. | 3.9 | 113 |
| 4 | Total determination and quantitative speciation analysis of selenium in yeast and wheat flour by isotope dilution analysis ICP-MS. Journal of Analytical Atomic Spectrometry, 2003, 18, 1243-1247. | 1.6 | 98 |
| 5 | Simultaneous Extraction of Arsenic and Selenium Species From Rice Products by Microwave-Assisted Enzymatic Extraction and Analysis by Ion Chromatography-Inductively Coupled Plasma-Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2009, 57, 3005-3013. | 2.4 | 87 |
| 6 | Simultaneous determination of arsenic and selenium species in fish tissues using microwave-assisted enzymatic extraction and ion chromatographyâ€“inductively coupled plasma mass spectrometry. Talanta, 2009, 78, 983-990. | 2.9 | 86 |
| 7 | Synthesis of nitrogen-doped ZnO by solâ€”gel method: characterization and its application on visible photocatalytic degradation of 2,4-D and picloram herbicides. Photochemical and Photobiological Sciences, 2015, 14, 536-542. | 1.6 | 81 |
| 8 | Salicylic acid degradation by advanced oxidation processes. Coupling of solar photoelectro-Fenton and solar heterogeneous photocatalysis. Journal of Hazardous Materials, 2016, 319, 34-42. | 6.5 | 74 |
| 9 | Coupling of solar photoelectro-Fenton with a BDD anode and solar heterogeneous photocatalysis for the mineralization of the herbicide atrazine. Chemosphere, 2014, 97, 26-33. | 4.2 | 70 |
| 10 | Activity of the ZnOâ€“Fe2O3 catalyst on the degradation of Dicamba and 2,4-D herbicides using simulated solar light. Ceramics International, 2014, 40, 8701-8708. | 2.3 | 68 |
| 11 | Air diffusion electrodes based on synthetized mesoporous carbon for application in amoxicillin degradation by electro-Fenton and solar photo electro-Fenton. Electrochimica Acta, 2018, 269, 232-240. | 2.6 | 68 |
| 12 | An evaluation of the migration of antimony from polyethylene terephthalate (PET) plastic used for bottled drinking water. Science of the Total Environment, 2016, 565, 511-518. | 3.9 | 64 |
| 13 | Selenium bioaccessibility assessment in selenized yeast after â€œin vitroâ€•gastrointestinal digestion using two-dimensional chromatography and mass spectrometry. Journal of Chromatography A, 2006, 1110, 108-116. | 1.8 | 62 |
| 14 | Determination of phthalates in bottled water by automated on-line solid phase extraction coupled to liquid chromatography with uv detection. Talanta, 2017, 168, 291-297. | 2.9 | 57 |
| 15 | 5-Hydroxymethylfurfural catalytic oxidation under mild conditions by Co (II), Fe (III) and Cu (II) Salen complexes supported on SBA-15: Synthesis, characterization and activity. Applied Catalysis A: General, 2017, 547, 132-145. | 2.2 | 54 |
| 16 | Applicability of multisyringe chromatography coupled to cold-vapor atomic fluorescence spectrometry for mercury speciation analysis. Analytica Chimica Acta, 2011, 708, 11-18. | 2.6 | 53 |
| 17 | Effect of carbon doping on WO 3 /TiO 2 coupled oxide and its photocatalytic activity on diclofenac degradation. Ceramics International, 2016, 42, 9796-9803. | 2.3 | 53 |
| 18 | Photocatalytic elimination of bisphenol A under visible light using Ni-doped TiO 2 synthesized by microwave assisted sol-gel method. Materials Science in Semiconductor Processing, 2017, 71, 275-282. | 1.9 | 47 |

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|---|---|---|---|
| 19 | Comparison of the solar photocatalytic activity of ZnO-Fe2O3 and ZnO-Fe0 on 2,4-D degradation in a CPC reactor. Photochemical and Photobiological Sciences, 2015, 14, 543-549. | 1.6 | 42 |
| 20 | Photocatalytical removal of inorganic and organic arsenic species from aqueous solution using zinc oxide semiconductor. Photochemical and Photobiological Sciences, 2013, 12, 653-659. | 1.6 | 41 |
| 21 | Performance of the photo-Fenton process in the degradation of a model azo dye mixture. Photochemical and Photobiological Sciences, 2011, 10, 332-337. | 1.6 | 40 |
| 22 | Determination of phthalate acid esters plasticizers in polyethylene terephthalate bottles and its correlation with some physicochemical properties. Polymer Testing, 2018, 68, 87-94. | 2.3 | 39 |
| 23 | Fe doped TiO 2 photocatalyst for the removal of As(III) under visible radiation and its potential application on the treatment of As-contaminated groundwater. Materials Research Bulletin, 2016, 73, 145-152. | 2.7 | 36 |
| 24 | Synthesis and photocatalytic activity of ZnO-CuPc for methylene blue and potassium cyanide degradation. Materials Science in Semiconductor Processing, 2018, 77, 74-82. | 1.9 | 35 |
| 25 | Sulfamethoxazole mineralization by solar photo electro-Fenton process in a pilot plant. Catalysis Today, 2018, 313, 175-181. | 2.2 | 35 |
| 26 | A novel P-doped Fe2O3-TiO2 mixed oxide: Synthesis, characterization and photocatalytic activity under visible radiation. Catalysis Today, 2019, 328, 91-98. | 2.2 | 35 |
| 27 | Cyanide degradation in aqueous solution by heterogeneous photocatalysis using boron-doped zinc oxide. Catalysis Today, 2019, 328, 202-209. | 2.2 | 33 |
| 28 | Visible light photocatalytic activity of solâ€“gel Ni-doped TiO2 on p-arsanilic acid degradation. Journal of Sol-Gel Science and Technology, 2018, 85, 723-731. | 1.1 | 32 |
| 29 | An evaluation of the bioaccessibility of arsenic in corn and rice samples based on cloud point extraction and hydride generation coupled to atomic fluorescence spectrometry. Food Chemistry, 2016, 204, 475-482. | 4.2 | 31 |
| 30 | Evaluation of the transfer of soil arsenic to maize crops in suburban areas of San Luis Potosi, Mexico. Science of the Total Environment, 2014, 497-498, 153-162. | 3.9 | 30 |
| 31 | Occurrence and seasonal distribution of five selected endocrine-disrupting compounds in wastewater treatment plants of the Metropolitan Area of Monterrey, Mexico: The role of water quality parameters. Environmental Pollution, 2021, 269, 116223. | 3.7 | 30 |
| 32 | Photocatalytic behaviour of WO3/TiO2-N for diclofenac degradation using simulated solar radiation as an activation source. Environmental Science and Pollution Research, 2017, 24, 4613-4624. | 2.7 | 28 |
| 33 | Phthalates in Beverages and Plastic Bottles: Sample Preparation and Determination. Food Analytical Methods, 2018, 11, 48-61. | 1.3 | 28 |
| 34 | Solar photocatalytic degradation of diclofenac aqueous solution using fluorine doped zinc oxide as catalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 391, 112364. | 2.0 | 28 |
| 35 | Enhancement of cyanide photocatalytic degradation using solâ€“gel ZnO sensitized with cobalt phthalocyanine. Journal of Sol-Gel Science and Technology, 2010, 54, 1-7. | 1.1 | 27 |
| 36 | Speciation analysis of organoarsenic compounds in livestock feed by microwave-assisted extraction and high performance liquid chromatography coupled to atomic fluorescence spectrometry. Food Chemistry, 2017, 232, 493-500. | 4.2 | 27 |

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|---|---|---|---|
| 37 | Persistent Organic Pollutants and Heavy Metal Concentrations in Soil from the Metropolitan Area of Monterrey, Nuevo Leon, Mexico. Archives of Environmental Contamination and Toxicology, 2016, 70, 452-463. | 2.1 | 26 |
| 38 | UV and visible activation of Cr(III)-doped TiO2 catalyst prepared by a microwave-assisted solâ€“gel method during MCPA degradation. Environmental Science and Pollution Research, 2017, 24, 12673-12682. | 2.7 | 25 |
| 39 | Phosphorous-doped TiO2 nanoparticles: synthesis, characterization, and visible photocatalytic evaluation on sulfamethazine degradation. Environmental Science and Pollution Research, 2019, 26, 4180-4191. | 2.7 | 25 |
| 40 | Carbon composite membrane derived from MIL-125-NH2 MOF for the enhanced extraction of emerging pollutants. Chemosphere, 2019, 231, 510-517. | 4.2 | 25 |
| 41 | Evaluating a â€˜biotic ligand modelâ€™ applied to chlorideâ€enhanced Cd uptake byBrassica junceafrom nutrient solution at constant Cd<sup>2+</sup>activity. Environmental Technology (United Kingdom), 2010, 31, 307-318. | 1.2 | 24 |
| 42 | Microwave assisted extraction for mercury speciation analysis. Mikrochimica Acta, 2011, 172, 3-14. | 2.5 | 24 |
| 43 | Contamination and chemical fractionation of heavy metals in street dust from the Metropolitan Area of Monterrey, Mexico. Environmental Technology (United Kingdom), 2011, 32, 1163-1172. | 1.2 | 21 |
| 44 | Internal correction of spectral interferences and mass bias in ICP-MS using isotope pattern deconvolution: Application to the determination of selenium in biological samples by isotope dilution analysis. Journal of Analytical Atomic Spectrometry, 2008, 23, 579. | 1.6 | 20 |
| 45 | Implications of chloride-enhanced cadmium uptake in saline agriculture: modeling cadmium uptake by maize and tobacco. International Journal of Environmental Science and Technology, 2012, 9, 69-77. | 1.8 | 20 |
| 46 | Arsenic fractionation in agricultural soil using an automated three-step sequential extraction method coupled to hydride generation-atomic fluorescence spectrometry. Analytica Chimica Acta, 2015, 874, 1-10. | 2.6 | 20 |
| 47 | Potential of multisyringe chromatography for the on-line monitoring of the photocatalytic degradation of antituberculosis drugs in aqueous solution. Chemosphere, 2015, 121, 68-75. | 4.2 | 20 |
| 48 | Magnetic porous carbons derived from cobalt(<scp>ii</scp>)-based metalâ€“organic frameworks for the solid-phase extraction of sulfonamides. Dalton Transactions, 2020, 49, 8959-8966. | 1.6 | 20 |
| 49 | Automated on-line monitoring of the TiO2-based photocatalytic degradation of dimethyl phthalate and diethyl phthalate. Photochemical and Photobiological Sciences, 2019, 18, 863-870. | 1.6 | 18 |
| 50 | Iron metal-organic framework supported in a polymeric membrane for solid-phase extraction of anti-inflammatory drugs. Analytica Chimica Acta, 2020, 1136, 157-167. | 2.6 | 18 |
| 51 | Coupled heterogeneous photocatalysis using a P-TiO2-Î±Fe2O3 catalyst and K2S2O8 for the efficient degradation of a sulfonamide mixture. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 394, 112485. | 2.0 | 18 |
| 52 | Sensitive determination of chromium (VI) in paint samples using a membrane optode coupled to a multisyringe flow injection system. Talanta, 2012, 99, 730-736. | 2.9 | 15 |
| 53 | On-line monitoring of the photocatalytic degradation of 2,4-D and dicamba using a solid-phase extraction-multisyringe flow injection system. Journal of Environmental Management, 2013, 129, 377-383. | 3.8 | 15 |
| 54 | Synthesis of Cr<sup>3+</sup>-doped TiO<sub>2</sub> nanoparticles: characterization and evaluation of their visible photocatalytic performance and stability. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td | 1.2 | 15 |

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|---|---|---|---|
| 55 | Optical fiber reflectance sensor coupled to a multisyringe flow injection system for preconcentration and determination of 1-naphthylamine in water samples. Analytica Chimica Acta, 2006, 573-574, 406-412. | 2.6 | 14 |
| 56 | Applicability of multisyringe chromatography coupled to on-line solid-phase extraction to the simultaneous determination of dicamba, 2,4-D, and atrazine. Analytical and Bioanalytical Chemistry, 2012, 403, 2705-2714. | 1.9 | 14 |
| 57 | Synthesis, characterization, and photocatalytic performance of FeTiO3/ZnO on ciprofloxacin degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 411, 113186. | 2.0 | 14 |
| 58 | Performance of Bi2O3/TiO2 prepared by sol-gel on p-Cresol degradation under solar and visible light. Environmental Science and Pollution Research, 2019, 26, 4215-4223. | 2.7 | 13 |
| 59 | Title is missing!. Journal of Radioanalytical and Nuclear Chemistry, 2001, 247, 413-417. | 0.7 | 11 |
| 60 | Optimization of solidâ€phase extraction of parabens and benzophenones in water samples using a combination of Plackettâ€Burman and Boxâ€Behnken designs. Journal of Separation Science, 2018, 41, 4488-4497. | 1.3 | 11 |
| 61 | Multisyringe flow injection spectrophotometric determination of uranium in water samples. Journal of Radioanalytical and Nuclear Chemistry, 2009, 281, 433-439. | 0.7 | 10 |
| 62 | Different Iron Oxalate Sources as Catalysts on Pyrazinamide Degradation by the Photo-Fenton Process at Different pH Values. Water, Air, and Soil Pollution, 2020, 231, 1. | 1.1 | 10 |
| 63 | Automated SPE-HPLC-UV methodology for the on-line determination of plasticisers in wastewater samples. International Journal of Environmental Analytical Chemistry, 2020, , 1-14. | 1.8 | 10 |
| 64 | Saline irrigation and Zn amendment effect on Cd phytoavailability to Swiss chard (Beta vulgaris L.) grown on a long-term amended agricultural soil: a human risk assessment. Environmental Science and Pollution Research, 2014, 21, 5909-5916. | 2.7 | 9 |
| 65 | Solar Photocatalysis for Degradation of Pharmaceuticals in Hospital Wastewater: Influence of the Type of Catalyst, Aqueous Matrix, and Toxicity Evaluation. Water, Air, and Soil Pollution, 2022, 233, 1. | 1.1 | 9 |
| 66 | Determination of Pharmaceuticals Discharged in Wastewater from a Public Hospital Using LC-MS/MS Technique. Journal of the Mexican Chemical Society, 2021, 65, . | 0.2 | 8 |
| 67 | Enhanced performance of TiO2 doped with aluminum for the photocatalytic degradation of a mixture of plasticizers. Journal of Environmental Chemical Engineering, 2022, 10, 107100. | 3.3 | 8 |
| 68 | Decolorization of Synthetic Azo Dyes by Electrochemically Generated â€¢OH Radicals in Acidic Medium using Boron Doped Diamond (BDD) Electrodes. ECS Transactions, 2009, 20, 283-290. | 0.3 | 6 |
| 69 | A multisyringe flow injection method for the determination of thorium in water samples using spectrophotometric detection. Journal of Radioanalytical and Nuclear Chemistry, 2011, 289, 67-73. | 0.7 | 6 |
| 70 | Nanoparticle@Metalâ€Organic Frameworks as a Template for Hierarchical Porous Carbon Sponges. Chemistry - A European Journal, 2018, 24, 13450-13456. | 1.7 | 6 |
| 71 | Atrazine and 2, 4-D determination in corn samples using microwave assisted extraction and on-line solid-phase extraction coupled to liquid chromatography.. Journal of the Mexican Chemical Society, 2018, 62, . | 0.2 | 5 |
| 72 | Coupled multisyringe flow injection/reactor tank for the spectrophotometric detection of azinphos methyl in water samples. Mikrochimica Acta, 2009, 167, 273-280. | 2.5 | 3 |

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|---|---|---|---|
| 73 | Enhanced Removal of Low Concentrations of Anti-inflammatory Drugs in Water Using Fe-MOF Derived Carbon Treated by Acidic Leaching: Characterization and Performance. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 4204-4215. | 1.9 | 3 |
| 74 | Multisyringe Flow Injection Analysis for Determination of 1-Naphthylamine in Water Samples. Mikrochimica Acta, 2006, 153, 139-144. | 2.5 | 2 |
| 75 | Frontispiece: Nanoparticle@Metal-Organic Frameworks as a Template for Hierarchical Porous Carbon Sponges. Chemistry - A European Journal, 2018, 24, . | 1.7 | 0 |
| 76 | Accumulation and arsenic speciation in maize crop (Zea mays) in San Luis PotosÃ; MÃ©xico. Arsenic in the Environment Proceedings, 2014, , 461-463. | 0.0 | 0 |