# John Vakros

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1916943/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 59 papers | 1,733 citations | 257101 24 h-index | 288905 40 g-index |
| 60 all docs | 60 docs citations | 60 times ranked | 1748 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Potentiometric Mass Titrations:Â Experimental and Theoretical Establishment of a New Technique for Determining the Point of Zero Charge (PZC) of Metal (Hydr)Oxides. Journal of Physical Chemistry B, 2003, 107, 9441-9451. | 1.2 | 228 |
| 2 | Degradation of antibiotic sulfamethoxazole by biochar-activated persulfate: Factors affecting the activation and degradation processes. Catalysis Today, 2018, 313, 128-133. | 2.2 | 148 |
| 3 | Influence of the preparation method on the structureâ€“activity of cobalt oxide catalysts supported on alumina for complete benzene oxidation. Applied Catalysis B: Environmental, 2005, 57, 299-312. | 10.8 | 94 |
| 4 | Adsorption of cobalt species on the interface, which is developed between aqueous solution and metal oxides used for the preparation of supported catalysts: a critical review. Advances in Colloid and Interface Science, 2004, 110, 97-120. | 7.0 | 73 |
| 5 | Potentiometric mass titrations: a quick scan for determining the point of zero charge. Chemical Communications, 2002, , 1980-1981. | 2.2 | 67 |
| 6 | Adsorption of Cobalt Ions on the â€œElectrolytic Solution/Î³-Aluminaâ€•Interface Studied by Diffuse Reflectance Spectroscopy (DRS). Langmuir, 2004, 20, 10542-10550. | 1.6 | 66 |
| 7 | Cobalt Oxide Supported Î³-Alumina Catalyst with Very High Active Surface Area Prepared by Equilibrium Deposition Filtration. Langmuir, 2002, 18, 417-422. | 1.6 | 58 |
| 8 | Activation of Persulfate by Biochars from Valorized Olive Stones for the Degradation of Sulfamethoxazole. Catalysts, 2019, 9, 419. | 1.6 | 54 |
| 9 | Biochars and Their Use as Transesterification Catalysts for Biodiesel Production: A Short Review. Catalysts, 2018, 8, 562. | 1.6 | 51 |
| 10 | Preparation and characterization of [60] fullerene nanoparticles supported on titania used as a photocatalyst. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 349, 189-194. | 2.3 | 49 |
| 11 | Degradation of sulfamethoxazole with persulfate using spent coffee grounds biochar as activator. Journal of Environmental Management, 2020, 271, 111022. | 3.8 | 46 |
| 12 | Cobalt oxide/Î³-alumina catalysts prepared by equilibrium deposition filtration: The influence of the initial cobalt concentration on the structure of the oxide phase and the activity for complete benzene oxidation. Applied Catalysis A: General, 2005, 288, 1-9. | 2.2 | 37 |
| 13 | Activation of persulfate by biochar from spent malt rootlets for the degradation of trimethoprim in the presence of inorganic ions. Journal of Chemical Technology and Biotechnology, 2020, 95, 2348-2358. | 1.6 | 37 |
| 14 | Oxidation of Sulfamethoxazole by Rice Husk Biochar-Activated Persulfate. Catalysts, 2021, 11, 850. | 1.6 | 37 |
| 15 | A Novel Postâ€Synthesis Modification of CuOâ€CeO<sub>2</sub> Catalysts: Effect on Their Activity for Selective CO Oxidation. ChemCatChem, 2018, 10, 2096-2106. | 1.8 | 35 |
| 16 | CoMo/Al2O3-SiO2 catalysts prepared by co-equilibrium deposition filtration: Characterization and catalytic behavior for the hydrodesulphurization of thiophene. Applied Catalysis B: Environmental, 2010, 96, 496-507. | 10.8 | 34 |
| 17 | Valorisation of agricultural waste derived biochars in aquaculture to remove organic micropollutants from water â€“ experimental study and molecular dynamics simulations. Journal of Environmental Management, 2021, 300, 113717. | 3.8 | 34 |
| 18 | Biochar obtained by carbonization of spent coffee grounds and its application in the construction of an energy storage device. Chemical Engineering Journal Advances, 2020, 4, 100061. | 2.4 | 32 |

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| 19 | Transesterification activity of modified biochars from spent malt rootlets using triacetin. Journal of Cleaner Production, 2020, 259, 120931. | 4.6 | 32 |
| 20 | Effect of sodium persulfate treatment on the physicochemical properties and catalytic activity of biochar prepared from spent malt rootlets. Journal of Environmental Chemical Engineering, 2021, 9, 105071. | 3.3 | 32 |
| 21 | Degradation of methylparaben by sonocatalysis using a Coâ€“Fe magnetic carbon xerogel. Ultrasonics Sonochemistry, 2020, 64, 105045. | 3.8 | 29 |
| 22 | Tuning the Catalytic Properties of Copper-Promoted Nanoceria via a Hydrothermal Method. Catalysts, 2019, 9, 138. | 1.6 | 26 |
| 23 | Kinetics of Adsorption of the Cobalt Ions on the â€œElectrolytic Solution/Î³-Aluminaâ€•Interface. Journal of Physical Chemistry B, 2005, 109, 4599-4607. | 1.2 | 25 |
| 24 | The influence of the preparation method and the Co loading on the structure and activity of cobalt oxide/Î³-alumina catalysts for NO reduction by propene. Journal of Colloid and Interface Science, 2006, 295, 165-172. | 5.0 | 25 |
| 25 | Î³-Alumina-supported [60]fullerene catalysts: Synthesis, properties and applications in the photooxidation of alkenes. Journal of Molecular Catalysis A, 2010, 316, 65-74. | 4.8 | 25 |
| 26 | Effect of TiO2 on Pt-Ru-based anodes for methanol electroreforming. Applied Catalysis B: Environmental, 2018, 237, 811-816. | 10.8 | 23 |
| 27 | Effect of TiO 2 Loading on Pt-Ru Catalysts During Alcohol Electrooxidation. Electrochimica Acta, 2015, 179, 578-587. | 2.6 | 22 |
| 28 | Development of [60] fullerene supported on silica catalysts for the photo-oxidation of alkenes. Applied Catalysis A: General, 2010, 372, 16-25. | 2.2 | 21 |
| 29 | Copper-promoted ceria catalysts for CO oxidation reaction. Catalysis Today, 2020, 355, 647-653. | 2.2 | 21 |
| 30 | On the synergy between tungsten and molybdenum in the W-incorporated CoMo/Î³-Al2O3 hydrodesulfurization catalysts. Applied Catalysis A: General, 2001, 217, 287-293. | 2.2 | 18 |
| 31 | Modification of the preparation procedure for increasing the hydrodesulfurisation activity of the CoMo/Î³-alumina catalysts. Catalysis Today, 2007, 127, 85-91. | 2.2 | 18 |
| 32 | Impact of acid treatment of CuO-CeO2 catalysts on the preferential oxidation of CO reaction. Catalysis Communications, 2018, 115, 68-72. | 1.6 | 17 |
| 33 | Effect of Carbon Support on the Electrocatalytic Properties of Ptâ^'Ru Catalysts. ChemElectroChem, 2019, 6, 4970-4979. | 1.7 | 17 |
| 34 | On the Performance of a Sustainable Rice Husk Biochar for the Activation of Persulfate and the Degradation of Antibiotics. Catalysts, 2021, 11, 1303. | 1.6 | 17 |
| 35 | Sonochemical degradation of propylparaben in the presence of agro-industrial biochar. Journal of Environmental Chemical Engineering, 2020, 8, 104010. | 3.3 | 16 |
| 36 | Fullerene C60 Supported on Silica and Î³-Alumina Catalyzed Photooxidations of Alkenes. Catalysis Letters, 2003, 89, 269-273. | 1.4 | 15 |

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|---|---|---|---|
| 37 | Lipid conversion of Scenedesmus rubescens biomass into biodiesel using biochar catalysts from malt spent rootlets. Journal of Chemical Technology and Biotechnology, 2020, 95, 2421-2429. | 1.6 | 14 |
| 38 | Biochar from Spent Malt Rootlets and Its Application to an Energy Conversion and Storage Device. Chemosensors, 2021, 9, 57. | 1.8 | 14 |
| 39 | Hydrodesulfurization catalyst bodies with various Co and Mo profiles. Applied Catalysis A: General, 2011, 399, 211-220. | 2.2 | 13 |
| 40 | Treatment of low-strength municipal wastewater containing phenanthrene using activated sludge and biofilm process. Desalination and Water Treatment, 2016, 57, 12047-12057. | 1.0 | 12 |
| 41 | Combined activation of persulfate by biochars and artificial light for the degradation of sulfamethoxazole in aqueous matrices. Journal of the Taiwan Institute of Chemical Engineers, 2022, 136, 104440. | 2.7 | 11 |
| 42 | Studying the Formation of Biofilms on Supports with Different Polarity and Their Efficiency to Treat Wastewater. Journal of Chemistry, 2015, 2015, 1-7. | 0.9 | 10 |
| 43 | Degradation of 4-Tert-Butylphenol in Water Using Mono-Doped (M1: Mo, W) and Co-Doped (M2-M1: Cu,) Tj ETQq1 1 0.784314 rgBT | 1.9 | 9 |
| 44 | Using diffuse reflectance spectroscopy (DRS) technique for studying biofilm formation on LDPE and PET surfaces: laboratory and field experiments. Environmental Science and Pollution Research, 2020, 27, 12055-12064. | 2.7 | 8 |
| 45 | Hybrid Biochar/Ceria Nanomaterials: Synthesis, Characterization and Activity Assessment for the Persulfate-Induced Degradation of Antibiotic Sulfamethoxazole. Nanomaterials, 2022, 12, 194. | 1.9 | 8 |
| 46 | Study of low temperature alcohol electro-reforming. Materials Today: Proceedings, 2018, 5, 27337-27344. | 0.9 | 7 |
| 47 | The Influence of Preparation Method on the Physicochemical Characteristics and Catalytic Activity of Co/TiO2 Catalysts. Catalysts, 2020, 10, 88. | 1.6 | 7 |
| 48 | Enhancement of the photoelectrochemical production of hydrogen peroxide under intermittent light supply in the presence of an optimized biochar supercapacitor. Electrochimica Acta, 2022, 427, 140846. | 2.6 | 7 |
| 49 | Effect of tungsten deposition method on K-modified NiW/Î³-Al2O3 as sulphur-tolerant waterâ€“gas shift reaction catalyst. Applied Catalysis A: General, 2015, 506, 14-24. | 2.2 | 5 |
| 50 | Electrochemical promotion of carbon supported Pt, Rh and Pd catalysts for H<sub>2</sub> oxidation in aqueous alkaline media. Journal of Chemical Technology and Biotechnology, 2018, 93, 1542-1548. | 1.6 | 5 |
| 51 | Conversion of Scenedesmus rubescens Lipid into Biodiesel by Biochar of Different Origin. Catalysts, 2021, 11, 1116. | 1.6 | 5 |
| 52 | The interplay between acid-base properties and Fermi level pinning of a nano dispersed tungsten oxide - titania catalytic system. Journal of Colloid and Interface Science, 2022, 614, 666-676. | 5.0 | 5 |
| 53 | Impact of Hydrothermally Prepared Support on the Catalytic Properties of CuCe Oxide for Preferential CO Oxidation Reaction. Catalysts, 2022, 12, 674. | 1.6 | 5 |
| 54 | Effect of ammonoxidation on lignite properties. Environmental Chemistry Letters, 2010, 8, 373-380. | 8.3 | 4 |

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| 55 | Effect of Carbon Support on the Electrocatalytic Properties of Ptâ^'Ru Catalysts. ChemElectroChem, 2019, 6, 4921-4921. | 1.7 | 2 |
| 56 | Recent Advances in Cobalt and Related Catalysts: From Catalyst Preparation to Catalytic Performance. Catalysts, 2021, 11, 420. | 1.6 | 2 |
| 57 | Structure of Co(II) Species Formed on the Surface of Î³-Alumina Upon Interfacial Deposition. Open Catalysis Journal, 2014, 7, 8-17. | 0.9 | 1 |
| 58 | [60]Fullerene Supported on Silica and Î³-Alumina Sensitized Photooxidation of Olefins: Chemical Evidence for Singlet Oxygen and Electron Transfer Mechanism. Synlett, 2004, 2004, 971-974. | 1.0 | 0 |
| 59 | Tuning the Physicochemical Properties of Nanostructured Materials through Advanced Preparation Methods. Nanomaterials, 2022, 12, 956. | 1.9 | 0 |