

# Sema Akay

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

759  
citations

759233

12  
h-index

526287

27  
g-index

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all docs

34  
docs citations

34  
times ranked

903  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Sonocatalytic degradation of an anthraquinone dye using TiO <sub>2</sub> -biochar nanocomposite. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 120-128.   | 8.2 | 134       |
| 2  | Ultrasound-assisted removal of Acid Red 17 using nanosized Fe <sub>3</sub> O <sub>4</sub> -loaded coffee waste hydrochar. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 72-80.  | 8.2 | 102       |
| 3  | Adsorption of 2,4-dichlorophenol on paper sludge/wheat husk biochar: Process optimization and comparison with biochars prepared from wood chips, sewage sludge and hog fuel/demolition waste. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2222-2231. | 6.7 | 84        |
| 4  | Sonocatalytic degradation of Reactive Yellow 39 using synthesized ZrO <sub>2</sub> nanoparticles on biochar. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 540-549.   | 8.2 | 76        |
| 5  | Synthesis of ZrO <sub>2</sub> nanoparticles on pumice and tuff for sonocatalytic degradation of rifampin. <i>Ultrasonics Sonochemistry</i> , 2018, 48, 349-361.  | 8.2 | 51        |
| 6  | Poly(benzoxazine- <i>sulfur</i> ): An efficient sorbent for mercury removal from aqueous solution. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45306.   | 2.6 | 44        |
| 7  | Synthesis of pumice-TiO <sub>2</sub> nanoflakes for sonocatalytic degradation of famotidine. <i>Journal of Cleaner Production</i> , 2018, 202, 853-862.  | 9.3 | 33        |
| 8  | Fe-modified hydrochar from orange peel as adsorbent of food colorant Brilliant Black: process optimization and kinetic studies. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 1975-1990.  | 3.5 | 27        |
| 9  | Fe-modified sporopollenin as a composite biosorbent for the removal of Pb <sup>2+</sup> from aqueous solutions. <i>Desalination and Water Treatment</i> , 2016, 57, 28294-28312.   | 1.0 | 20        |
| 10 | Solubility and Chromatographic Separation of 5-Fluorouracil under Subcritical Water Conditions. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 1538-1543.   | 1.9 | 19        |
| 11 | Preparation and application of Fe-modified banana peel in the adsorption of methylene blue: Process optimization using response surface methodology. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100517.                                  | 2.9 | 17        |
| 12 | Ultrasonic assisted photocatalytic process for degradation of ciprofloxacin using TiO <sub>2</sub> -Pd nanocomposite immobilized on pumice stone. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 582-591.   | 5.8 | 16        |
| 13 | Synthesis and evaluation of NA-PHEMAH polymer for use as a new stationary phase in high-temperature liquid chromatography. <i>Separation and Purification Technology</i> , 2015, 152, 1-6.   | 7.9 | 13        |
| 14 | Green Chromatographic Separation of Coumarin and Vanillins Using Subcritical Water as the Mobile Phase. <i>Journal of Chromatographic Science</i> , 2016, 54, 1187-1192.   | 1.4 | 12        |
| 15 | Assessment of a Pd-Fe <sub>3</sub> O <sub>4</sub> -biochar nanocomposite as a heterogeneous catalyst for the solvent-free Suzuki-Miyaura reaction. <i>Materials Chemistry and Physics</i> , 2021, 259, 124176.   | 4.0 | 12        |
| 16 | Solubility of coumarin in (ethanol+water) mixtures: Determination, correlation, thermodynamics and preferential solvation. <i>Journal of Molecular Liquids</i> , 2021, 339, 116761.  | 4.9 | 11        |
| 17 | Research of sulfadiazine using subcritical water and water+alcohol mixtures as the solvent: Solubility and thermodynamic property. <i>Journal of Molecular Liquids</i> , 2018, 253, 270-276.   | 4.9 | 9         |
| 18 | Dissolution thermodynamics and preferential solvation of 2,4-dinitrotoluene in (ethanol + water) mixtures. <i>Journal of Molecular Liquids</i> , 2021, 330, 115675.  | 4.9 | 9         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | An easily fabricated palladium nanocatalyst on magnetic biochar for Suzuki-Miyaura and aryl halide cyanation reactions. <i>New Journal of Chemistry</i> , 2021, 45, 12519-12527.  | 2.8 | 8         |
| 20 | Solubility, dissolution thermodynamics and preferential solvation of 4-nitroaniline in (ethanol + water) mixtures. <i>Journal of Molecular Liquids</i> , 2021, 333, 116038.   | 1.2 | 8         |
| 21 | Preparation and Application of a Hydrochar-Based Palladium Nanocatalyst for the Reduction of Nitroarenes. <i>Molecules</i> , 2021, 26, 6859.  | 3.8 | 8         |
| 22 | Degradation, solubility and chromatographic studies of Ibuprofen under high temperature water conditions. <i>Chemosphere</i> , 2021, 277, 130307.   | 8.2 | 7         |
| 23 | Pre-treatment of landfill leachate by biochar for the reduction of chemical oxygen demand: the effect of treatment time, temperature and biochar dose. <i>Journal of the Iranian Chemical Society</i> , 2021, 18, 1729-1739.                    | 2.2 | 6         |
| 24 | Investigation on the Solubility of the Antidepressant Drug Escitalopram in Subcritical Water. <i>Journal of Chemical &amp; Engineering Data</i> , 2021, 66, 2550-2560.  | 1.9 | 6         |
| 25 | Fabrication of Palladium Nanoparticles Supported on Natural Volcanic Tuff/Fe <sub>3</sub> O <sub>4</sub> and Its Catalytic Role in Microwave-Assisted Suzuki-Miyaura Coupling Reactions. <i>Catalysis Letters</i> , 2021, 151, 1102-1110.       | 2.6 | 5         |
| 26 | Solubility and dissolution thermodynamics of 5-fluorouracil in (ethanol+water) mixtures. <i>Journal of Molecular Liquids</i> , 2021, 333, 116038.   | 4.9 | 5         |
| 27 | Solubility of fluconazole in (ethanol+water) mixtures: Determination, correlation, dissolution thermodynamics and preferential solvation. <i>Journal of Molecular Liquids</i> , 2021, 333, 115987.  | 4.9 | 4         |
| 28 | Degradation of nitroaromatic compounds in subcritical water: application of response surface methodology. <i>Journal of Chemical &amp; Engineering Data</i> , 2021, 66, 2550-2560.  |     | 4         |
| 29 | Fabrication of palladium nanocatalyst supported on magnetic eggshell and its catalytic character in the catalytic reduction of nitroarenes in water. <i>Journal of Organometallic Chemistry</i> , 2021, 950, 121978.                            | 1.8 | 3         |
| 30 | Equilibrium solubility of vanillin in some (ethanol+water) mixtures: determination, correlation, thermodynamics and preferential solvation. <i>Journal of Molecular Liquids</i> , 2021, 342, 117529.  | 4.9 | 3         |
| 31 | Aqueous solubility and chromatographic studies of antifungal drug-fluconazole at high temperature conditions. <i>Journal of Molecular Liquids</i> , 2021, 328, 115438.  | 4.9 | 2         |
| 32 | Equilibrium solubility of 6-methylcoumarin in some (ethanol + water) mixtures: determination, correlation, thermodynamics and preferential solvation. <i>Physics and Chemistry of Liquids</i> , 2022, 60, 707-727.                              | 1.2 | 1         |
| 33 | Acid red 1 and Acid red 114 decolorization in H <sub>2</sub> O <sub>2</sub> -modified subcritical water: process optimization and application on a textile wastewater. <i>Journal of Chemical &amp; Engineering Data</i> , 2021, 66, 2550-2560. |     | 0         |
| 34 | Simultaneous determination of citalopram, paroxetine, fluoxetine, and sertraline by high-temperature liquid chromatography. <i>European Journal of Chemistry</i> , 2018, 9, 182-188.  | 0.6 | 0         |