

# Isabel C Neves

## List of Publications by Year in descending order

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93  
papers

2,711  
citations

172457

29  
h-index

214800

47  
g-index

97  
all docs

97  
docs citations

97  
times ranked

3176  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Fe(III)-exchanged zeolites as efficient electrocatalysts for Fenton-like oxidation of dyes in aqueous phase. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107891.  | 6.7 | 17        |
| 2  | Surface functionalization of zeolite-based drug delivery systems enhances their antitumoral activity in vivo. <i>Materials Science and Engineering C</i> , 2021, 120, 111721.  | 7.3 | 19        |
| 3  | Oxidation of pollutants <i>via</i> an electro-Fenton-like process in aqueous media using iron-zeolite modified electrodes. <i>New Journal of Chemistry</i> , 2021, 45, 12750-12757.  | 2.8 | 5         |
| 4  | Electrochemical oxidation of diclofenac on CNT and M/CNT modified electrodes. <i>New Journal of Chemistry</i> , 2021, 45, 12622-12633.   | 2.8 | 7         |
| 5  | Zeolite addition to improve biohydrogen production from dark fermentation of C5/C6-sugars and <i>Sargassum sp.</i> biomass. <i>Scientific Reports</i> , 2021, 11, 16350.   | 3.3 | 14        |
| 6  | Metal Ion-zeolite Materials against Resistant Bacteria, MRSA. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 12883-12892.  | 3.7 | 9         |
| 7  | Metal-zeolite catalysts for the removal of pharmaceutical pollutants in water by catalytic ozonation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106458.  | 6.7 | 8         |
| 8  | Fenton-Type Bimetallic Catalysts for Degradation of Dyes in Aqueous Solutions. <i>Catalysts</i> , 2021, 11, 32.  | 3.5 | 8         |
| 9  | Electrochemical oxidation of amoxicillin on carbon nanotubes and carbon nanotube supported metal modified electrodes. <i>Catalysis Today</i> , 2020, 357, 322-331.   | 4.4 | 15        |
| 10 | Waste-based biosorbents as cost-effective alternatives to commercial adsorbents for the retention of fluoxetine from water. <i>Separation and Purification Technology</i> , 2020, 235, 116139.                                     | 7.9 | 52        |
| 11 | Bifunctional Porous Cobalt Phosphide Foam for High-Current-Density Alkaline Water Electrolysis with 4000-h Long Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10193-10200.                                | 6.7 | 57        |
| 12 | Binuclear furanyl-azine metal complexes encapsulated in NaY zeolite as efficiently heterogeneous catalysts for phenol hydroxylation. <i>Journal of Molecular Structure</i> , 2020, 1206, 127687.                                   | 3.6 | 5         |
| 13 | Photocatalytic performance of N-doped TiO <sub>2</sub> nano-SiO <sub>2</sub> -HY nanocomposites immobilized over cotton fabrics. <i>Journal of Materials Research and Technology</i> , 2019, 8, 1933-1943.                         | 5.8 | 34        |
| 14 | Synthesis, characterization and <i>in vitro</i> validation of a magnetic zeolite nanocomposite with T <sub>2</sub> -MRI properties towards theranostic applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3351-3361. | 5.8 | 15        |
| 15 | Encapsulation and characterisation of cationic benzo[ <i>a</i> ]phenoxazines in zeolite HY. <i>New Journal of Chemistry</i> , 2019, 43, 15785-15792.   | 2.8 | 7         |
| 16 | Internalization studies on zeolite nanoparticles using human cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 469-476.  | 5.8 | 10        |
| 17 | Modification of microfluidic paper-based devices with dye nanomaterials obtained by encapsulation of compounds in Y and ZSM5 zeolites. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 66-74.                                | 7.8 | 13        |
| 18 | Study of the Electroreactivity of Amoxicillin on Carbon Nanotube-Supported Metal Electrodes. <i>ChemCatChem</i> , 2018, 10, 4900-4909.   | 3.7 | 7         |

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|----|--|------|-----------|
| 19 | Oxidation of Volatile Organic Compounds by Highly Efficient Metal Zeolite Catalysts. <i>ChemCatChem</i> , 2018, 10, 3754-3760.   | 3.7  | 11        |
| 20 | Y zeolite-supported niobium pentoxide catalysts for the glycerol acetalization reaction. <i>Microporous and Mesoporous Materials</i> , 2018, 271, 243-251.   | 4.4  | 33        |
| 21 | Comparison of different silica microporous structures as drug delivery systems for in vitro models of solid tumors. <i>RSC Advances</i> , 2017, 7, 13104-13111.  | 3.6  | 22        |
| 22 | Photocatalytic degradation of Rhodamine B dye by cotton textile coated with SiO <sub>2</sub> -TiO <sub>2</sub> and SiO <sub>2</sub> -TiO <sub>2</sub> -HY composites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 60-69. | 3.9  | 74        |
| 23 | A sustained approach to environmental catalysis: Reutilization of chromium from wastewater. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 1622-1657.   | 12.8 | 13        |
| 24 | Highly efficient heterogeneous catalysts for phenol oxidation: Binuclear pyrrolyl-azine metal complexes encapsulated in NaY zeolite. <i>Microporous and Mesoporous Materials</i> , 2016, 227, 272-280.   | 4.4  | 27        |
| 25 | Bromate reduction in water promoted by metal catalysts prepared over faujasite zeolite. <i>Chemical Engineering Journal</i> , 2016, 291, 199-205.  | 12.7 | 27        |
| 26 | Microbial growth inhibition caused by Zn/Ag-Y zeolite materials with different amounts of silver. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 141-147.  | 5.0  | 43        |
| 27 | Micro- and Mesoporous Structures as Drug Delivery Carriers for Salicylic Acid. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3589-3595.  | 3.1  | 16        |
| 28 | Kinetic and equilibrium studies of phosphorous adsorption: Effect of physical and chemical properties of adsorption agent. <i>Ecological Engineering</i> , 2015, 82, 527-530.  | 3.6  | 20        |
| 29 | Mono and bimetallic NaY catalysts with high performance in nitrate reduction in water. <i>Chemical Engineering Journal</i> , 2015, 281, 411-417.   | 12.7 | 43        |
| 30 | Highly efficient reduction of bromate to bromide over mono and bimetallic ZSM5 catalysts. <i>Green Chemistry</i> , 2015, 17, 4247-4254.  | 9.0  | 44        |
| 31 | Ion Exchange Dependent Electroactive Phase Content and Electrical Properties of Poly(vinylidene fluoride) Overloaded on Zeolite Y. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10784-10791.  | 3.1  | 14        |
| 32 | Preparation and assessment of antimicrobial properties of bimetallic materials based on NaY zeolite. <i>RSC Advances</i> , 2015, 5, 37188-37195.   | 3.6  | 23        |
| 33 | In vitro and in vivo studies of temozolomide loading in zeolite structures as drug delivery systems for glioblastoma. <i>RSC Advances</i> , 2015, 5, 28219-28227.  | 3.6  | 29        |
| 34 | Electrochemical oxidation of aniline at mono and bimetallic electrocatalysts supported on carbon nanotubes. <i>Chemical Engineering Journal</i> , 2015, 260, 309-315.  | 12.7 | 32        |
| 35 | Norbornene Oxidation by Chiral Complexes Encapsulated in NaY Zeolite. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19042-19050.   | 3.1  | 8         |
| 36 | Oxidation of cyclohexanol and cyclohexene with triazenido complexes of chromium immobilized in biosorption FAU supports. <i>Chemical Engineering Journal</i> , 2014, 247, 134-141.   | 12.7 | 6         |

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|----|---|------|-----------|
| 37 | Influence of solvent properties on the electrical response of poly(vinylidene fluoride)/NaY composites. <i>Journal of Polymer Research</i> , 2013, 20, 1.   | 2.4  | 9         |
| 38 | Nanocomposites of poly( $\mu$ -caprolactone) doped with titanium species. <i>Journal of Materials Science</i> , 2013, 48, 3578-3585.  | 3.7  | 6         |
| 39 | Potential of 5-fluorouracil encapsulated in zeolites as drug delivery systems for in vitro models of colorectal carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 237-244.                        | 5.0  | 90        |
| 40 | Copper(II)-imidazole-salen Complexes Encapsulated into NaY Zeolite for Oxidations Reactions. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5408-5417.  | 2.0  | 14        |
| 41 | Manganese complexes with triazenido ligands encapsulated in NaY zeolite as heterogeneous catalysts. <i>Inorganica Chimica Acta</i> , 2013, 394, 591-597.  | 2.4  | 25        |
| 42 | The electrochemical mineralization of oxalic and oxamic acids using modified electrodes based on carbon nanotubes. <i>Chemical Engineering Journal</i> , 2013, 228, 374-380.  | 12.7 | 12        |
| 43 | Study of silver species stabilized in different microporous zeolites. <i>Microporous and Mesoporous Materials</i> , 2013, 181, 83-87.   | 4.4  | 59        |
| 44 | Dielectric relaxation, ac conductivity and electric modulus in poly(vinylidene fluoride)/NaY zeolite composites. <i>Solid State Ionics</i> , 2013, 235, 42-50.  | 2.7  | 104       |
| 45 | Electrochemical and Catalytic Studies of a Manganese(III) Complex with a Tetradentate Schiff-Base Ligand Encapsulated in NaY Zeolite. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2768-2776.         | 2.0  | 10        |
| 46 | Effect of Zeolite Content in the Electrical, Mechanical and Thermal Degradation Response of Poly(vinylidene fluoride)/NaY Zeolite Composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6804-6810. | 0.9  | 19        |
| 47 | 413 Enhancing 5-FU Activity in Colorectal Carcinoma-derived Cell Lines – Combination With Monocarboxylate Transporter Inhibitors and Encapsulation into Zeolites. <i>European Journal of Cancer</i> , 2012, 48, S100. | 2.8  | 0         |
| 48 | Improved biosorption for Cr(VI) reduction and removal by <i>Arthrobacter viscosus</i> using zeolite. <i>International Biodeterioration and Biodegradation</i> , 2012, 74, 116-123.                                    | 3.9  | 48        |
| 49 | Antimicrobial activity of faujasite zeolites doped with silver. <i>Microporous and Mesoporous Materials</i> , 2012, 160, 126-132.   | 4.4  | 146       |
| 50 | Electrical and thermal behavior of $\beta$ -phase poly(vinylidene fluoride)/NaY zeolite composites. <i>Microporous and Mesoporous Materials</i> , 2012, 161, 98-105.  | 4.4  | 39        |
| 51 | Zeolite Structures Loading with an Anticancer Compound As Drug Delivery Systems. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25642-25650.   | 3.1  | 120       |
| 52 | Determination of the parameters affecting electrospun chitosan fiber size distribution and morphology. <i>Carbohydrate Polymers</i> , 2012, 87, 1295-1301.  | 10.2 | 90        |
| 53 | Evaluation of ion exchange-modified Y and ZSM5 zeolites in Cr(VI) biosorption and catalytic oxidation of ethyl acetate. <i>Applied Catalysis B: Environmental</i> , 2012, 117-118, 406-413.                           | 20.2 | 46        |
| 54 | Electrocatalytic oxidation of oxalic and oxamic acids in aqueous media at carbon nanotube modified electrodes. <i>Electrochimica Acta</i> , 2012, 60, 278-286.  | 5.2  | 17        |

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|----|--|------|-----------|
| 55 | Encapsulation of manganese(III) complex in NaY nanoporosity for heterogeneous catalysis. Applied Organometallic Chemistry, 2012, 26, 44-49.  | 3.5  | 22        |
| 56 | Catalytic behavior of 1-(2-pyridylazo)-2-naphthol transition metal complexes encapsulated in Y zeolite. Journal of Catalysis, 2011, 278, 102-110.  | 6.2  | 60        |
| 57 | Nucleation of the Electroactive $\beta$ Phase and Enhancement of the Optical Transparency in Low Filler Content Poly(vinylidene)/Clay Nanocomposites. Journal of Physical Chemistry C, 2011, 115, 18076-18082.             | 3.1  | 255       |
| 58 | Encapsulation of $\beta$ -cyano-4-hydroxycinnamic acid into a NaY zeolite. Journal of Materials Science, 2011, 46, 7511-7516.  | 3.7  | 34        |
| 59 | Stability of nanocomposites of poly( $\epsilon$ -caprolactone) with tungsten trioxide. Journal of Polymer Research, 2011, 18, 1743-1749.   | 2.4  | 14        |
| 60 | Reutilization of Cr-Y zeolite obtained by biosorption in the catalytic oxidation of volatile organic compounds. Journal of Hazardous Materials, 2011, 192, 545-553.  | 12.4 | 29        |
| 61 | Removal of Cr(VI) from Aqueous Solutions by a Bacterial Biofilm Supported on Zeolite: Optimisation of the Operational Conditions and Scale-Up of the Bioreactor. Chemical Engineering and Technology, 2010, 33, 2008-2014. | 1.5  | 25        |
| 62 | Recovery of Cr-biosorption supports as catalysts for the oxidation of cyclohexanol. Journal of Biotechnology, 2010, 150, 248-248.  | 3.8  | 0         |
| 63 | Immobilization of chromium complexes in zeolite Y obtained from biosorbents: Synthesis, characterization and catalytic behaviour. Applied Catalysis B: Environmental, 2010, 94, 1-7.                                       | 20.2 | 30        |
| 64 | Effect of the supporting zeolite structure on Cr biosorption: Performance of a single-step reactor and of a sequential batch reactor – A comparison study. Chemical Engineering Journal, 2010, 163, 22-27.                 | 12.7 | 14        |
| 65 | Optical Properties of Nanostructures Obtained by Encapsulation of Cation Chromophores in Y Zeolite. Journal of Physical Chemistry C, 2010, 114, 10719-10724.   | 3.1  | 16        |
| 66 | Enhancement of the Dielectric Constant and Thermal Properties of $\beta$ -Poly(vinylidene fluoride)/Zeolite Nanocomposites. Journal of Physical Chemistry C, 2010, 114, 14446-14452.                                       | 3.1  | 28        |
| 67 | BIOSORPTION OF HEXAVALENT CHROMIUM BASED ON MODIFIED Y ZEOLITES OBTAINED BY ALKALI-TREATMENT. Environmental Engineering and Management Journal, 2010, 9, 305-311.  | 0.6  | 13        |
| 68 | Redox properties of (1-(2-pyridylazo)-2-naphthol)copper(II) encapsulated in Y Zeolite. Microporous and Mesoporous Materials, 2009, 117, 297-303.   | 4.4  | 23        |
| 69 | Host-guest chemistry of the (N,N'-diarylacetyl)rhodium(III) complex in zeolite Y. Physical Chemistry Chemical Physics, 2009, 11, 6308.   | 2.8  | 23        |
| 70 | Immobilization of Fe(III) complexes of pyridazine derivatives prepared from biosorbents supported on zeolites. Microporous and Mesoporous Materials, 2008, 109, 163-171.   | 4.4  | 28        |
| 71 | Host(beta zeolite)-guest (copper(II)-methyladenine complex) nanomaterials: synthesis and characterization. New Journal of Chemistry, 2008, 32, 2263.   | 2.8  | 14        |
| 72 | Organic-inorganic hybrid matrix doped with alkenyldiazenido complexes of molybdenum. Journal of Alloys and Compounds, 2008, 454, 72-77.  | 5.5  | 6         |

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|----|---|------|-----------|
| 73 | Zeolites as supports for the biorecovery of hexavalent and trivalent chromium. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 555-560.  | 4.4  | 57        |
| 74 | <sup>1</sup> H Relaxivity of Water in Aqueous Suspensions of Gd <sup>3+</sup> -Loaded NaY Nanozeolites and AITUD-1 Mesoporous Material: The Influence of Si/Al Ratio and Pore Size. <i>Inorganic Chemistry</i> , 2007, 46, 6190-6196. | 4.0  | 30        |
| 75 | Copper(II) Purine Complexes Encapsulated in NaY Zeolite. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1682-1689.  | 2.0  | 20        |
| 76 | Feedstock recycling of polyethylene over AITUD-1 mesoporous catalyst. <i>Polymer Degradation and Stability</i> , 2007, 92, 1513-1519.   | 5.8  | 30        |
| 77 | Catalytic degradation of polyethylene: An evaluation of the effect of dealuminated Y zeolites using thermal analysis. <i>Materials Chemistry and Physics</i> , 2007, 104, 5-9.  | 4.0  | 23        |
| 78 | Noncovalent Anchoring of Hydride Tungsten Complex on Mesoporous Materials. <i>Studies in Surface Science and Catalysis</i> , 2006, 162, 417-424.  | 1.5  | 1         |
| 79 | The effect of acidity behaviour of Y zeolites on the catalytic degradation of polyethylene. <i>European Polymer Journal</i> , 2006, 42, 1541-1547.  | 5.4  | 32        |
| 80 | Oxidation catalysts prepared from biosorbents supported on zeolites. <i>Applied Catalysis B: Environmental</i> , 2006, 66, 274-280.   | 20.2 | 30        |
| 81 | Encapsulated pyridazine Cr(III) complexes prepared from biosorbents supported in zeolites. <i>Studies in Surface Science and Catalysis</i> , 2005, 158, 1073-1080.  | 1.5  | 4         |
| 82 | Effect of Concentration of the Diazoalcene Molybdenum Complex Immobilized in Ureasil Matrix. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 32, 353-356.  | 2.4  | 1         |
| 83 | Synthesis and immobilization of molybdenum complexes in a pillared layered clay. <i>Microporous and Mesoporous Materials</i> , 2004, 72, 111-118.   | 4.4  | 30        |
| 84 | Tungsten hydride complex as a template in organic-inorganic hybrid materials. <i>Solid State Sciences</i> , 2003, 5, 519-523.   | 3.2  | 3         |
| 85 | Immobilization of Mo(IV) complex in hybrid matrix obtained via sol-gel technique. <i>Journal of Alloys and Compounds</i> , 2003, 360, 272-278.  | 5.5  | 6         |
| 86 | Zeolite-encapsulated copper (II) complexes with N <sub>3</sub> O <sub>2</sub> Schiff bases: synthesis and characterization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 115, 249-256.             | 4.7  | 22        |
| 87 | Kinetic Modeling of Phenol Acylation with Acetic Acid on HZSM5. <i>Industrial &amp; Engineering Chemistry Research</i> , 1995, 34, 1624-1629.   | 3.7  | 21        |
| 88 | Acylation of phenol with acetic acid over a HZSM5 zeolite, reaction scheme. <i>Journal of Molecular Catalysis</i> , 1994, 93, 169-179.  | 1.2  | 66        |
| 89 | Phenol acylation: unexpected improvement of the selectivity to o-hydroxyacetophenone by passivation of the external acid sites of HZSM5. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, 717-718.              | 2.0  | 32        |
| 90 | Mechanism of Phenylacetate Transformation on Zeolites. <i>Studies in Surface Science and Catalysis</i> , 1991, 59, 513-522.   | 1.5  | 20        |

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|----|--|-----|-----------|
| 91 | Compounds responsible for the deactivation of H-USY zeolite during the alkylation of phenol with methanol. <i>Reaction Kinetics and Catalysis Letters</i> , 1990, 41, 327-332.   | 0.6 | 1         |
| 92 | Iron and Chromium Removal from Binary Solutions of Fe(III)/Cr(III) and Fe(III)/Cr(VI) by Biosorbents Supported on Zeolites. <i>Materials Science Forum</i> , 0, 587-588, 463-467.  | 0.3 | 7         |
| 93 | Performance of self-cleaning cotton textiles coated with TiO <sub>2</sub> , TiO <sub>2</sub> -SiO <sub>2</sub> and TiO <sub>2</sub> -SiO <sub>2</sub> -HY in removing Rhodamine B and Reactive Red 120 dyes from aqueous solutions. , 0, 223, 447-455. |     | 5         |