

Sónia Carabineiro
Researcher, Assistant Professor
DQ - Departamento de Química
LAQV@REQUIMTE
Postal address:
DQ - Departamento de Química
Faculdade de Ciências e Tecnologia/UNL
Edifício Departamental
Campus de Caparica
2829-516 Caparica
Portugal
Postal address:
LAQV@REQUIMTE
Faculdade de Ciências e Tecnologia/UNL
Edifício Departamental
Campus de Caparica
2829-516 Caparica
Portugal
Email: sonia.carabineiro@fct.unl.pt



Personal information

Sónia Carabineiro graduated in Applied Chemistry (branch of Biotechnology) at the NOVA School of Science and Technology (Universidade Nova de Lisboa), Portugal (FCT-UNL) and obtained her Ph.D. degree in Chemical Engineering (Catalysis) in 2001 at the same University. In 2000 she was an Invited Researcher at Leiden University, The Netherlands, and Post Doctoral Researcher from 2001 to 2003 at the same University. In 2004 she got a Post Doc grant at the Centre of Structural Chemistry of the University of Lisbon (CQE-IST). In 2007 she joined the Laboratory of Catalysis and Materials (LCM), part of Associate Laboratory LSRE-LCM, at the Department of Chemical Engineering (DEQ) of the Faculty of Engineering of the University of Porto (FEUP), as an Assistant Researcher, with a Ciencia 2007 grant from Foundation for Science and Technology (FCT). From 2013 to 2018 she was a Principal Researcher (Investigador FCT grant) at the same lab. She was Integrated Researcher of CQE-IST and Invited (Visiting) Professor at Wuhan Textile University, China in 2019.

She is now Assistant Professor at FCT-UNL (since 2020). She has also collaborations with other Universities of Portugal and abroad and is member of the Editorial Board of ChemCatChem journal. She is one the females reviewer in the world with more revisions done (Publons data) and evaluator of several international projects (including ERC grants). She was included in the list of the worldwide most cited scientists (top 2% of Chemistry) published by Stanford University in 2020.

Qualifications

Habilitation (Agregação) in Chemistry , Doctorate, Instituto Superior Técnico
Award Date: 12 Jun 2019
Chemical Engineering (Catalysis), Doctorate, Universidade NOVA de Lisboa
Award Date: 23 Feb 2001
Applied Chemistry, Bachelor, Faculdade de Ciências e Tecnologia (FCT)
Award Date: 22 Dec 1994

Employment

Assistant Professor

DQ - Departamento de Química
Universidade NOVA de Lisboa
Portugal
7 Feb 2020 → present

Researcher

LAQV@REQUIMTE
Universidade NOVA de Lisboa
Portugal
7 Feb 2020 → present

Research outputs

- Adsorption of cationic dyes, drugs and metal from aqueous solutions using a polymer composite of magnetic/ β -cyclodextrin/activated charcoal/Na alginate: Isotherm, kinetics and regeneration studies**
Yadav, S., Asthana, A., Singh, A. K., Chakraborty, R., Vidya, S. S., Susan, M. A. B. H. & Carabineiro, S. A. C., 5 May 2021, In : Journal of Hazardous Materials. 409, 124840.
- Effect of alkali (Cs) doping on the surface chemistry and CO₂ hydrogenation performance of CuO/CeO₂ catalysts**
Varvoutis, G., Lykaki, M., Papista, E., Carabineiro, S. A. C., Psarras, A. C., Marnellos, G. E. & Konsolakis, M., Feb 2021, In : Journal of CO₂ Utilization. 44, 101408.
- The catalytic activity of carbon-supported Cu(I)-phosphine complexes for the microwave-assisted synthesis of 1,2,3-triazoles**
Librando, I. L., Mahmoud, A. G., Carabineiro, S. A. C., Guedes Da Silva, M. F. C., Geraldies, C. F. G. C. & Pombeiro, A. J. L., Feb 2021, In : Catalysts. 11, 2, p. 1-15 15 p., 185.
- Oxidation of 5-hydroxymethylfurfural on supported ag, au, pd and bimetallic pd-au catalysts: Effect of the support**
German, D., Pakrieva, E., Kolobova, E., Carabineiro, S. A. C., Stucchi, M., Villa, A., Prati, L., Bogdanchikova, N., Corberán, V. C. & Pestryakov, A., 14 Jan 2021, In : Catalysts. 11, 1, p. 1-20 20 p., 115.
- Kinetics of carbon nanotubes and graphene growth on iron and steel: Evidencing the mechanisms of carbon formation**
Lobo, L. S. & Carabineiro, S. A. C., 8 Jan 2021, In : Nanomaterials. 11, 1, p. 1-15 15 p., 143.
- Chapter 12: Carbon-supported Vanadium Catalysis**
Carabineiro, S. A. C., Martins, L. M. D. R. S. & Sutradhar, M., 2021, *Catalysis with Earth-abundant Elements*. Sutradhar, M., Da Silva, J. A. L. & Pombeiro, A. J. L. (eds.). 41 ed. Royal Society of Chemistry, p. 285-320 36 p. (RSC Catalysis Series; vol. 2021-January, no. 41).
- Poly(vinylidene) fluoride membranes coated by heparin/collagen layer-by-layer, smart biomimetic approaches for mesenchymal stem cell culture**
Guillot-Ferriols, M., Rodríguez-Hernández, J. C., Correia, D. M., Carabineiro, S. A. C., Lanceros-Méndez, S., Gómez Ribelles, J. L. & Gallego Ferrer, G., Dec 2020, In : Materials Science and Engineering C. 117, 111281.
- Porphyrin–nanodiamond hybrid materials—active, stable and reusable cyclohexene oxidation catalysts**
Dias, L. D., Rodrigues, F. M. S., Calvete, M. J. F., Carabineiro, S. A. C., Scherer, M. D., Caires, A. R. L., Buijnsters, J. G., Figueiredo, J. L., Bagnato, V. S. & Pereira, M. M., Dec 2020, In : Catalysts. 10, 12, p. 1-13 13 p., 1402.
- Three in one: Atomically dispersed Na boosting the photoreactivity of carbon nitride towards NO oxidation**
Li, X., Hu, Z., Li, Q., Lei, M., Fan, J., Carabineiro, S. A. C., Liu, Y. & Lv, K., 25 Nov 2020, In : Chemical Communications. 56, 91, p. 14195-14198 4 p.
- Antimicrobial and Antibiofilm Properties of Fluorinated Polymers with Embedded Functionalized Nanodiamonds**
Nunes-Pereira, J., Costa, P., Fernandes, L. C., Carvalho, E. O., Fernandes, M. M., Carabineiro, S. A. C., Buijnsters, J. G., Tubio, C. R. & Lanceros-Mendez, S., 13 Nov 2020, In : ACS Applied Polymer Materials. 2, 11, p. 5014-5024 11 p.
- Glycerol oxidation over supported gold catalysts: The combined effect of au particle size and basicity of support**
Pakrieva, E., Kolobova, E., German, D., Stucchi, M., Villa, A., Prati, L., Carabineiro, S. A. C., Bogdanchikova, N., Corberán, V. C. & Pestryakov, A., Sep 2020, In : Processes. 8, 9, 1016.
- The Ca²⁺-ATPase inhibition potential of gold(I, III) compounds**
Fonseca, C., Fraqueza, G., Carabineiro, S. A. C. & Aureliano, M., Sep 2020, In : Inorganics. 8, 9, p. 1-11 11 p., 49.
- Control of surface functionalization of graphene-metal oxide polymer nanocomposites prepared by a hydrothermal method**
Dewangan, R., Asthana, A., Singh, A. K. & Carabineiro, S. A. C., 17 Aug 2020, In : Polymer Bulletin.
- Intensified elimination of aqueous heavy metal ions using chicken feathers chemically modified by a batch method**
Chakraborty, R., Asthana, A., Singh, A. K., Yadav, S., Susan, M. A. B. H. & Carabineiro, S. A. C., 15 Aug 2020, In : Journal of Molecular Liquids. 312, 113475.
- Remarkable efficiency of Ni supported on hydrothermally synthesized CeO₂ nanorods for low-temperature CO₂ hydrogenation to methane**
Varvoutis, G., Lykaki, M., Stefa, S., Papista, E., Carabineiro, S. A. C., Marnellos, G. E. & Konsolakis, M., Jul 2020, In : Catalysis Communications. 142, 106036.
- Assessing the photocatalytic degradation of fluoroquinolone norfloxacin by Mn:ZnS quantum dots: Kinetic study, degradation pathway and influencing factors**
Patel, J., Singh, A. K. & Carabineiro, S. A. C., May 2020, In : Nanomaterials. 10, 5, 964.
- Carbon formation at high temperatures (550–1400 °C): Kinetics, alternative mechanisms and growth modes**
Sousa Lobo, L. & Carabineiro, S. A. C., May 2020, In : Catalysts. 10, 5, 465.
- Effect of gold electronic state on the catalytic performance of nano gold catalysts in n-octanol oxidation**
Pakrieva, E., Kolobova, E., Kotolevich, Y., Pascual, L., Carabineiro, S. A. C., Kharlanov, A. N., Pichugina, D., Nikitina, N., German, D., Partida, T. A. Z., Vazquez, H. J. T., Fariás, M. H., Bogdanchikova, N., Corberán, V. C. & Pestryakov, A., May 2020, In : Nanomaterials. 10, 5, 880.

19. **Morphology dependence degradation of electro-and magnetoactive poly(3-hydroxybutyrate-co-hydroxyvalerate) for tissue engineering applications**
Amaro, L., Correia, D. M., Martins, P. M., Botelho, G., Carabineiro, S. A. C., Ribeiro, C. & Lanceros-Mendez, S., 1 Apr 2020, In : Polymers. 12, 4, 953.
20. **2D g-C₃N₄ for advancement of photo-generated carrier dynamics: Status and challenges**
Li, Y., Gu, M., Zhang, X., Fan, J., Lv, K., Carabineiro, S. A. C. & Dong, F., 1 Jan 2020, (Accepted/In press) In : Materials Today.
21. **Chicken feathers derived materials for the removal of chromium from aqueous solutions: kinetics, isotherms, thermodynamics and regeneration studies**
Chakraborty, R., Asthana, A., Singh, A. K., Verma, R., Sankarasubramanian, S., Yadav, S., Carabineiro, S. A. C. & Susan, M. A. B. H., 2020, (Accepted/In press) In : Journal of Dispersion Science and Technology.
22. **Synthesis, characterization and antibacterial activity of a graphene oxide based NiO and starch composite material**
Dewangan, R., Asthana, A., Singh, A. K. & Carabineiro, S. A. C., 2020, (Accepted/In press) In : Journal of Dispersion Science and Technology.
23. **Corrigendum to "Plasma generation of supported metal catalysts" [Appl. Catal. A Gen. 237 (2002) 41-51] (DOI:10.1016/S0926-860X(02)00299-5)**
Shim, H., Phillips, J., Fonseca, I. M. & Carabineiro, S., 10 Jan 2007, In : Applied Catalysis A: General. 316, 2, 1 p.