

## INFORMATII PERSONALE

## Simona Somacescu



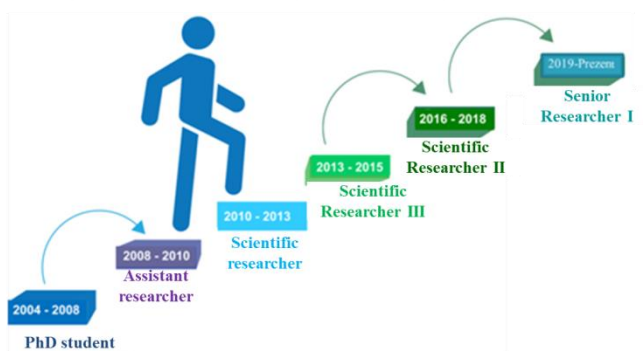
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<https://publons.com/researcher/2809089/simona-somacescu/>

<https://www.brainmap.ro/simona-somacescu>

## EXPERIENTA PROFESIONALA

- 08/2003–05/2025 **Asistent cercetare, Doctorand, Cercetator Stiintific, Cercetator Stiintific III, Cercetator Stiintific II, Cercetator Stiintific I**  
 Institutul de Chimie Fizica - Ilie Murgulescu Academia Romana, Bucuresti (Romania)

**Ilie Murgulescu – Institute of Physical Chemistry, Romanian Academy**


- Sinteza materialelor mezoporoase prin metoda auto-asamblarii asistata de surfactanti si tratament hidrotermal, pentru aplicatii in pile de combustie (SOFC si PEMFC), producerea de combustibili verzi si senzori de gaze.
- Caracterizarea materialelor mezoporoase prin difractie de raze X si masuratori BET.
- Expertiza in analiza chimiei de suprafata prin spectroscopie fotoelectronica de raze X (XPS).
- Cataliza: reactii de oxidare catalitica ale hidrocarburilor si compusilor organici volatili (VOC).

## EEDUCATIE SI FORMARE

- 11/2004–04/2009 **Doctor in Chimie**  
 "Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest (Romania)  
 Titlul tezei: „Oxizi mezostructurati ai metalelor de tranzitie cu activitate catalitica in oxidarea hidrocarburilor in SOFC”.
- 10/2002–04/2004 **Master in Stiinte – 2004**  
 Facultatea de Chimie, Departamentul de Cataliza, Universitatea din Bucuresti, (Romania)  
 Sinteza catalizatori cu structura perovskitica pentru oxidarea catalitica a compusilor organici volatili (de ex. toluen)
- 10/1996–06/2000 **Licenta in Stiinte**  
 Facultatea de Chimie, Tehnologie Chimica si Cataliza, Universitatea din Bucuresti, Romania  
 Evaluare catalitica: hidrogenoliza 1,1a,6,10b-tetrahidro-1,6 metanodibenzo[a,e]ciclopropa[c]-cicloheptenei pe catalizatori pe baza de Ru incorporat in SiO<sub>2</sub> si ZrO<sub>2</sub>, cu aplicatii in sinteza fina a medicamentelor

2006–2013

**Iunie–Septembrie 2006 si Iulie 2007**, Laboratorul de Chimie a Materialelor Anorganice (CMI), Universitatea din Namur, Belgia

Materiale membranare nanocompozite pe baza de oxizi ai metalelor de tranzitie, cu activitate catalitica in reactiile de oxidare a hidrocarburilor pentru aplicatii in pile de combustie

**11–12 noiembrie 2010**, Institutul National de Cercetare-Dezvoltare in Microtehnologii-Procese de Microfabricatie, partener EuroTraining (FSRM Swiss Foundation for Research in Microtechnology)

**Februarie–Aprilie 2012**, „Nanostructuri auto-asamblate pentru detectia gazelor toxice”, Instituto de Tecnologia Quimica (UPV-CSIC), Valencia, Spania

**Mai 2013**, Instituto de Tecnologia Quimica (UPV-CSIC), Valencia, Spania, Evaluarea performantelor anodurilor pentru aplicatii IT-SOFC

**Noiembrie 2019**, Instituto de Tecnologia Quimica (UPV-CSIC), Valencia, Spania  
Materiale mezoporoase pentru energie verde

## COMPETENTE PERSONALE E

Limba Materna Romana

Limbi straine

	Intelegere		Vorbit		Scris
	Ascultare	Citare	Interactiune orala	Exprimare orala	
English	B2	C2	B1	B2	B2
French	B2	B2	C2	C1	C1

Niveluri: A1 si A2: Utilizator de baza - B1 si B2: Utilizator independent - C1 si C2: Utilizator avansat  
Cadrul European Comun de Referinta pentru Limbi Straine

Communication skills

**Expertiza in managementul proiectelor stiintifice: Experienta dovedita in gestionarea eficienta a proiectelor stiintifice, asigurand livrarea la timp si alinierea la obiectivele strategice..**

**Abilitati analitice solide: Competent in realizarea diferitelor tipuri de analize si in formularea unor concluzii relevante, aplicabile si orientate spre actiune..**

**Comunicare eficienta: Ascultator activ, cu abilitatea de a pune intrebari de clarificare si de a purta un dialog constructiv pentru a asigura intelegerea reciproca.**

**Aptitudini organizationale excelente: Capabil sa gestionez eficient timpul, energia si resursele mentale pentru atingerea obiectivelor si mentinerea productivitatii..**

**Lucru in echipa si initiativa: Orientat spre colaborare, cu preocupare pentru intelegerea perspectivelor si obiectivelor colegilor, dar si cu initiativa de a contribui independent atunci cand este necesar**

Competente de comunicare

Managementul proiectelor stiintifice

**Director/Responsabil pentru urmatoarele proiecte:**

**Proiect de mobilitate – PN-IV-P2-2.2-MC-2024-0307, 11 noiembrie – 10 decembrie 2024 – Instituto de Tecnologia Quimica (UPV).**

**Proiect de transfer la operatorul economic 96PTE/2022-2024, " Pile de combustie pe bioetanol cu anod fara metal pentru dispozitive portabile ", Partner (Responsible)**

**M-ERANET 110/2019-2022, " Proiectare holistica a electrocatalizatorilor pentru pile de combustie destinate aplicatiilor de putere redusa ", Partener (Responsabil)**

**PNCDI II- PED 75/2016- 2017, " Materiale anodice avansate pentru performanta si durabilitate imbunatatite"- Partener (Responsabil)**

**Proiect de parteneriat: „Biogeneratoare de energie: proiectarea unor noi electrocatalizatori pentru PEMFC-uri care functioneaza cu bioetanol, cu aplicatii pentru dispozitive portabile”, Contract nr. 56/201, 2014–2016, Partener (responsabil).**

**Proiect de parteneriat: „Noi sisteme chimice bazate pe retele nanocristaline si arhitecturi poroase pentru pile de combustie cu oxid solid la temperatura intermediara (IT-SOFC) care opereaza cu biogaz”, Contract nr. 26/201, 2012–2015, Coordonator.**

**Bursa postdoctorala** la Institutul National de Cercetare-Dezvoltare pentru Microtehnologii, Bucuresti, Romania – POSDRU/89/1.5/S/63700; 06/2010–12/2012: „*Nanostructuri autoasamblate cu aplicatii ca senzori pentru detectia gazelor toxice*”, Coordonator.

**Grant international** – Cooperare Bilaterală Internațională între Institutul de Chimie Fizică „Ilie Murgulescu” și Facultatea de Chimie și Tehnologie Chimică, Universitatea de Stat din Republica Moldova, nr. 416/2010; 07/2010–11/2012: „*Materiale nanostructurate ca electrozi catodici pentru pile de combustie cu oxid solid la temperatura intermediară (IT-SOFC)*”, Coordonator.

**Grant național pentru tineri cercetători** (CNCSIS TD, nr. 148/2007; 10/2007–12/2008): „*Oxizi mezostructurați ai metalelor de tranziție cu activitate catalitică în reacțiile de oxidare ale hidrocarburilor în pile de combustie cu oxid solid (SOFC)*”, Coordonator.

#### INFORMATII SUPLIMENTARE

##### Publicatii relevante

<p align="center"><b>Selectie Articole ISI Relevante pentru perioada 2014-2025</b></p>	<p align="center"><b>Cuartila/ Factor impact</b></p>
<p>T. Spataru, <b>S. Somacescu*</b>, L. Preda, D. Culita, P. Osiceanu, O. G. Moga, F. Neatu, S. Neatu, A. G. Mirea, A. Kuncser, N. Petrea, V. Somoghi, M. Florea*, N. Spataru*, <i>Controlled morphology and surface chemistry of Ni supported on SnO<sub>2</sub> and SnO<sub>2</sub>-graphene by a versatile deposition method for enhanced bioethanol electrooxidation</i> Journal of Power Sources, Volume 661, 1 January 2026, 238635</p>	<p align="center"><b><u>Q1</u></b>  <b>7.9</b></p>
<p>M. I. Valls, J. Ara, S. Remiro-Buenamañana, S. Escolástico, D. Catalán-Martínez, J. Grand, M. Kindelmann, J. Mayer, <b>S. Somacescu</b>, D. Curulla-Ferré, Jose M. Serra* <i>Redox-acidity interplay in Eu-promoted PtSn<sub>2</sub> catalysts for selective and stable propane dehydrogenation</i> - Angewandte Chemie International Edition, <b>23 October 2025, e202512853</b>,</p>	<p align="center"><b><u>Q1</u></b>  <b>7.9</b></p>
<p><b>S. Somacescu</b>, P. Osiceanu, J. M. Calderon-Moreno, D. Culita, F. Neatu, M. M Trandafir, S. Neatu, A. Kuncser, S. Gabor, E. Talas, A. Tompos, I. Borbath, M. Florea <i>Design of electrocatalysts with reduced Pt content supported on mesoporous NiWO<sub>4</sub> and NiWO<sub>4</sub>-graphene nanoplatelets composite for oxygen reduction and hydrogen oxidation in acidic medium</i> INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Volume 48, Issue 16, Pages 6317-6335</p>	<p align="center"><b><u>Q1</u></b>  <b>7.2</b></p>
<p><b>S. Somacescu*</b>, N. Cioatera, P. Osiceanu, J. M. Calderon-Moreno, C. Ghica, F. Neatu, M. Florea <i>NiO / Sr doped Ce<sub>(0.85)Pr<sub>0.10</sub>Er<sub>0.05</sub>O<sub>(2-delta)</sub></sub></i> mesoarchitected catalyst for partial oxidation of CH<sub>4</sub> and anode fueled by H<sub>2</sub> <i>Microporous and Mesoporous Materials</i>, Volume 323, Article Number 111171, Published AUG 2021</p>	<p align="center"><b><u>Q1</u></b>  <b>5.455</b></p>
<p><b>S. Somacescu</b>, A. Stanoiu, V.I. Dinu, J.M. Calderon-Moreno, O.G. Florea, M. Florea, P. Osiceanu, C.E. Simion, <i>CuWO<sub>4</sub> with CuO and Cu(OH)<sub>(2)</sub> Native Surface Layers for H<sub>2</sub>S Detection under in-Field Conditions</i>, <i>Materials</i>, Volume 14, Issue 2 Article Number 465, Published JAN 2021</p>	<p align="center"><b><u>Q1</u></b>  <b>3.623</b></p>
<p><b>S. Somacescu*</b>, N. Cioatera, P. Osiceanu, J. M. Calderon-Moreno, C. Ghica, F. Neatu, M. Florea <i>Bimodal mesoporous NiO/CeO<sub>2-δ</sub>-YSZ with enhanced carbon tolerance in catalytic partial oxidation of methane - potential IT-SOFCs anode</i>, <i>Applied Catalysis B: Environmental</i>, Volume 241, February 2019, Pages 393-406</p>	<p align="center"><b><u>Q1</u></b>  <b>16.683</b></p>

<p><b>S. Somacescu</b>, C. Ghica, C.E. Simion, A. C.Kuncser, A. M.Vlaicu, M. Stefan, D. Ghica, O. G.Florea, I. F.Mercioniu, A. Stanoiu  <i>Nanoclustered Pd decorated nanocrystalline Zn doped SnO<sub>2</sub> for ppb NO<sub>2</sub> detection at low temperature</i>,  SENSORS AND ACTUATORS B-CHEMICAL Volume: 294 Pages: 148-156  Published: SEP 1 2019</p>	<p><b>Q1</b>  <b>7.100</b></p>
<p>Stanoiu, A., Simion, C.E., Sackmann, A, Baibarac, M., Florea, O.G., Osiceanu, P., Teodorescu, V.S., <b>Somacescu, S*</b>,  <i>Networked mesoporous SnO<sub>2</sub> nanostructures templated by Brij®35 with enhanced H<sub>2</sub>S selective performance</i>  Microporous and Mesoporous Materials, 270, pp. 93-101 , 2018</p>	<p><b>Q1</b>  <b>4,182</b></p>
<p>Stanoiu, A., Simion, C.E., Calderon-Moreno, J.M., Osiceanu, P., Florea, M., Teodorescu, V.S., <b>Somacescu, S*</b>  <i>Sensors based on mesoporous SnO<sub>2</sub>-CuWO<sub>4</sub> with high selective sensitivity to H<sub>2</sub>S at low operating temperature</i>  Journal of Hazardous Materials, 331, pp. 150-160, 2017</p>	<p><b>Q1</b>  <b>6,434</b></p>
<p><b>Somacescu, S</b>; Navarrete, L ; Florea, M ; Calderon-Moreno, JM ; Serra J.M.  <i>Self-assembled (Ni/Cu, Ti)-YSZ with potential applications for IT-SOFCs: Catalytic and electrochemical assessment, ectrochemical assessment</i>  Journal of Alloys and Compounds, Volume 690, <b>2017</b>, Pages 873-883</p>	<p><b>Q1</b>  <b>3,779</b></p>
<p><b>S. Somacescu*</b>, P. Osiceanu, J. M. Calderon-Moreno, A. Sackmann, C. E. Simion, A. Stanoiu  <i>Sn<sub>0.9-x</sub>In<sub>0.1</sub>Cu<sub>x</sub> (I)O<sub>2-δ</sub> gas sensors with selectivity to H<sub>2</sub>S working under humid air conditions</i>  Microporous and Mesoporous Materials, Volume 197, October 2014, Pages 63–71</p>	<p><b>Q1</b>  <b>3,453</b></p>
<p>T. Spataru, <b>S. Somacescu*</b>, L. Preda, D. Culita, P. Osiceanu, O. G. Moga, F. Neatu, S. Neatu, A. G. Mirea, A. Kuncser, N. Petrea, V. Somoghi, M. Florea*, N. Spataru*,  <i>„Tailoring morphology and surface chemistry of Ni supported on SnO<sub>2</sub> and SnO<sub>2</sub>-graphene by a versatile deposition method for enhanced bioethanol electrooxidation”</i>  Journal of Power Sources, <i>POWER-D-25-02545 – Manuscript Under Review din 6.06.2025 - FI=8.1</i></p>	<p><b>Q1</b>  <b>8.1</b></p>
<p>aria Valls; Jesus Ara; Soni Escolastico; Sonia Remiro; David Catalán-Martínez; Julien Grand; Moritz Kindelmann; Joachim Mayer; Simona Somacescu; Daniel Curulla-Ferré; Jose M. Serra, Redox-acidity interplay in Eu-promoted PtSn<sub>2</sub> catalysts for selective and stable propane dehydrogenation, Angewandte Chemie, Ms under review</p>	<p><b>Q1</b>  <b>16.9</b></p>
<p>M.A. Mihai, L. Preda, C. Negrila, S. Somacescu, N. D. Becherescu, A. Velea, M. Y. Zaki, N. Spataru, Thermally Interpenetrated Co–Ni Mixed Oxide as Efficient Oxygen Evolution Electrodes, Electrocatalysis, 2025, <a href="https://doi.org/10.1007/s12678-025-00956-4">https://doi.org/10.1007/s12678-025-00956-4</a>.</p>	<p><b>Q2</b>  <b>2.7</b></p>
<p>C. G. Mihalcea, M. Stefan, C.Ghica, O. G. Florea, A.Stanoiu, C. E. Simion, S. Somacescu, D. Ghica, In-depth insight into the structural properties of nanoparticulate NiO for CO sensing, Applied Surface Science, Volume 651, 159252, 2024</p>	<p><b>Q1</b>  <b>6.3</b></p>
<p>M.A. Mihai, T. Spataru, S. Somacescu, OG Moga, L Preda, M. Florea, A.Kuncser, N. Spătaru Nitrite anodic oxidation at Ni (ii)/Ni (iii)-decorated mesoporous SnO<sub>2</sub> and its analytical applications, Analyst, 148, 6028-6035, 2023</p>	<p><b>Q1</b>  <b>4.2</b></p>

T Spătaru, S Somacescu*, P Osiceanu, D. C. Culita, Ma. A. Mihai, M. Florea, A.Kuncser, N. Spătaru, Nickel Species-Modified Mesoporous SnO <sub>2</sub> as a Non-Platinum Electrocatalyst for Bioethanol Anodic Oxidation, Journal of The Electrochemical Society, 170 (12), 2023	<u>Q1</u> <u>3.1</u>
S. Escolástico, M. Balaguer, C. Solís, F. Toldra-Reig, S. Somacescu, U. Gerhards, A. Aguadero, K. Haas-Santo, R. Dittmeyer, J.M. Serra, Promotion of mixed protonic-electronic transport in La <sub>5.4</sub> WO <sub>11.1</sub> -&; membranes under H <sub>2</sub> S atmospheres, JOURNAL OF MATERIALS CHEMISTRY A, Article; Early Access, DOI10.1039/d3ta01827j, 2023	<u>Q1</u> <u>11.9</u>
G. Petcu, F.Papa, E. M. Anghel, I. Atkinson, S. Preda, S. Somacescu, D. Culita, A. Baran, E.M. Ciobanu, L.M.Jecu, M. Constantin, V. Parvulescu, Effects of Aluminosilicate Gel Treatment and TiO <sub>2</sub> Loading on Photocatalytic Properties of Au-TiO <sub>2</sub> /Zeolite Y, GELS, Volume 9, Issue 6, Art. No 503, 2023.	<u>Q1</u> <u>4.6</u>
S. Neatu, F. Neatu, M.-I. Chirica, I. Borbáth, E. Talas, A. Tompos, S. Somacescu, P. Osiceanu, A. M Folgado, A. Martinez Chaparro M. Florea, Recent progress in electrocatalysts and electrodes for portable fuel cells, JOURNAL OF MATERIALS CHEMISTRY A, Volume 9, Issue 32, Page 17065-17128, 2021	<u>Q1</u> <u>11.9</u>
G. Patrinoiu, J.M. Calderon-Moreno, S. Somacescu, A.M. Musuc, T. Spataru, P. Ionita, O. Carp Rational Functionalization Towards Redox-Active TEMPO Stable Free-Radical-Hydrochar Composites CHEMSUSCHEM, Volume 14, Issue 9, Page 2042-2049, Published MAY 6 2021	<u>Q1</u> <u>8.928</u>
S. Neatu, F. Neatu, V. Constantin Diculescu, M. M. Trandafir, N. Petrea, S. Somacescu, F. Krumeich, J. T. C. Wennmacher, A. J. Knorpp, J. Anton van Bokhoven, Mihaela Florea Undoped SnO <sub>2</sub> as Support for Ni Species to Boost the Oxygen Generation through Alkaline Water Electrolysis ACS Appl. Mater. Interfaces, Publication Date: March 27, 2020, <a href="https://doi.org/10.1021/acscami.9b19541">https://doi.org/10.1021/acscami.9b19541</a>	<u>Q1</u> <u>8.758</u>
A Staerz, S Somacescu, M Epifani, T Kida, U. Weimar, N. Barsan, WO <sub>3</sub> -Based Gas Sensors: Identifying Inherent Qualities and Understanding the Sensing Mechanism, ACS Sensors 2020, <a href="https://doi.org/10.1021/acssensors.0c00113">https://doi.org/10.1021/acssensors.0c00113</a>	<u>Q1</u> <u>7.333</u>
A Stanoiu, C Ghica, S Somacescu, AC Kuncser, A. M. Vlaicu, I.F. Mercioniu, O. G. Florea, C. E. Simion, Low temperature CO sensing under infield conditions with in doped Pd/SnO <sub>2</sub> , Sensors and Actuators B: Chemical Volume 308, 1 April 2020, 127717	<u>Q1</u> <u>7.100</u>
Marinescu, G.; Culita, D. C.; Romanitan, C.; Somacescu, S.; Ene, C. D.; Marinescu, V.; Negreanu, D. G.; Maxim, C.; Popa, M.; Marutescu, L, Novel hybrid materials based on heteroleptic Ru (III) complexes immobilized on SBA-15 mesoporous silica as highly potent antimicrobial and cytotoxic agents, Applied Surface Science, Volume 520, 1 August 2020, 146379	<u>Q1</u> <u>6.182</u>
M Florea, S Somacescu, G Postole, A Urdă, F. Neatu, S. Neatu, L. Massin, P. Gélín, La <sub>0.75</sub> Sr <sub>0.25</sub> XO <sub>3</sub> (X= Fe, Mn or Cr) with coking tolerance for CH <sub>4</sub> /H <sub>2</sub> O reaction: effect of H <sub>2</sub> S on catalytic performanc, Catal. Sci. Technol., 2019,9, 2351-2366	<u>Q1</u> <u>5,726</u>
M Tudose, EM Anghel, DC Culita, S Somacescu, J.M. Calderon-Moreno, V. Tecuceanu, F. Dumitrascu, O. Dracea, M. Popa, L. Marutescu, C. Bleotu, C. Curutiu, M. C. Chifiriuc Covalent coupling of tuberculostatic agents and graphene oxide: A promising approach for enhancing and extending their antimicrobial applications, APPLIED SURFACE SCIENCE Volume: 471 Pages: 553-565 Published: MAR	<u>Q1</u> <u>6.182</u>

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I. Atkinson, E. Anghel, S.Petrescu,A. M. Seciu, L. M. Stefan, O.C. Mocioiu, L. Predoana, M. Voicescu, S. Somacescu, D. Culita, M. Zaharescu, Cerium-containing mesoporous bioactive glasses: Material characterization, in vitro bioactivity, biocompatibility and cytotoxicity evaluation, Microporous and Mesoporous Materials, Volume 276, 1 March 2019, Pages 76-88	<b><u>Q1</u></b> <b><u>4,551</u></b>
Romanitan, C., Varasteanu, P., Mihalache, I, Culita, D., Somacescu, S., Pascu, R., Tanasa, E., Eremia, S.A.V., Boldeiu, A., Simion, M., Radoi, A., Kusko, M., High-performance solid state supercapacitors assembling graphene interconnected networks in porous silicon electrode by electrochemical methods using 2,6-dihydroxynaphthalen, Scientific Reports, Volume 8, Issue 1, 1 December 2018, Article number 9654	<b><u>Q1</u></b> <b><u>4,259</u></b>
C. Solís, F. Toldra-Reig, M. Balaguer, S. Somacescu, J. Garcia-Fayos, E. Palafox, José M. Serra, Mixed Ionic–Electronic Conduction in NiFe2O4–Ce0.8Gd0.2O2– $\delta$ Nanocomposite Thin Films for Oxygen Separation, CHEMSUSCHEM, Volume11, Issue16, August 22, 2018, Pages 2818-2827	<b><u>Q1</u></b> <b><u>7,411</u></b>
Mureseanu, M., Filip, M., Somacescu, S., Baran, A., Carja, G., Parvulescu, V., Ce, Ti modified MCM-48 mesoporous photocatalysts: Effect of the synthesis route on support and metal ion properties, Applied Surface ScienceVolume 444, 30 June 2018, Pages 235-242	<b><u>Q1</u></b> <b><u>4,439</u></b>
Filip, M., Todorova, S., Shopska, M., Ciobanu, M., Papa, F., Somacescu, S., Munteanu, C., Parvulescu, V., Effects of Ti loading on activity and redox behavior of metals in PtCeTi/KIT-6 catalysts for CH4 and CO oxidation, Catalysis Today, Volume 306, 15 May 2018, Pages 138-144	<b><u>Q1</u></b> <b><u>4,667</u></b>
Simion, C.E., Somacescu, S., Teodorescu, V.S., Osiceanu, P., Stanoiu, A., H2S sensing mechanism of SnO2-CuWO4 operated under pulsed temperature modulation, Sensors and Actuators, B: Chemical, Volume 259, 15 April 2018, Pages 258-268	<b><u>Q1</u></b> <b><u>6,393</u></b>
Marinescu, C., Ben Ali, M., Hamdi, A., Cherifi, Y., Barras, A., Coffinier, Y., Somacescu, S., Raditoiu, V., Szunerits, S., Boukherroub, R., Cobalt phthalocyanine-supported reduced graphene oxide: A highly efficient catalyst for heterogeneous activation of peroxy monosulfate for rhodamine B and pentachlorophenol degradation, Chemical Engineering Journal, Volume 336, 15 March 2018, Pages 465-475	<b><u>Q1</u></b> <b><u>6,735</u></b>
Patrinoiu, G., Etacheri, V., Somacescu, S., Teodorescu, V.S., Birjega, R., Culita, D.C., Hong, C.N., Calderon-Moreno, J.M., Pol, V.G., Carp, O., Spherical cobalt/cobalt oxide - Carbon composite anodes for enhanced lithium-ion storage, Electrochimica Acta, Volume 264, 20 February 2018, Pages 191-202	<b><u>Q1</u></b> <b><u>5,116</u></b>
Tudose, M; Culita, DC ; Musuc, AM; Somacescu, S; Ghica, C; Chifiriuc, MC; Bleotu, C, Lipoic acid functionalized SiO2@Ag nanoparticles. Synthesis, characterization and evaluation of biological activity, ; MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, Volume: 79, Pages: 499-506, Published: OCT 1 2017	<b><u>Q1</u></b> <b><u>5,08</u></b>
Stanoiu, A ; Somacescu, S ; Calderon-Moreno, JM; Teodorescu, VS ; Florea, OG ; Sackmann, A; Simion, CE, Low level NO2 detection under humid background and associated sensing mechanism for mesoporous SnO2, Sensors and Actuators, B: Chemical, Volume 231, 1 August 2016, Pages 166-174	<b><u>Q1</u></b> <b><u>5,401</u></b>

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<p>Crişan, M., Røileanu, M., Drăgan, N., Crişan, D., Ianculescu, A., Niţoi, I., Oancea, P., Şomăcescu, S., Stănică, N., Vasile, B., Stan, C., Sol-gel iron-doped TiO<sub>2</sub> nanopowders with photocatalytic activity, Applied Catalysis A: General Volume 504, 5 September 2015, Pages 130-142</p>	<p><b><u>Q1</u></b> <b><u>4,012</u></b></p>
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