

Curriculum vitae

Informatii personale

Nume	Codrin Tugui
Adresa	Valea Lupului, Str. Ion Creanga nr. 30, ap 20 Iasi, Romania
E-mail	tugui.codrin@icmpp.ro
Telefon	0040742566240
Data nasterii	26 decembrie 1985
Nationalitate	Romana
Stare civila	Necasatorit

Educatie:

2009	Diploma de licenta, Facultatea de Inginerie Chimica si Protectia Mediului, specializarea <i>Inginerie Chimica</i> , Universitatea Tehnica Gheorghe Asachi, Iasi, Romania
2011	Master, Facultatea de Inginerie Chimica si Protectia Mediului, specializarea <i>Ingineria Procedeelor Nepoluante</i> , Universitatea Tehnica Gheorghe Asachi, Iasi, Romania
2013-prezent	Doctorand, Institutul de Chimie Macromoleculara Petru Poni, Iasi, Romania
Limbi straine	Engleza, foarte bine (citat, vorbit, scris)

Activitate stiintifica

Articole aparute

- 1** Goethite nanorods as a cheap and effective filler for siloxane nanocomposite elastomers, M. Iacob, G. Stiubianu, **C. Tugui**, L. Ursu, M. Ignat, C. Turta, M. Cazacu, RSC Adv. 2015, 5, 45439-45445 (**IF: 3.108**);
- 2** Bimodal silicone interpenetrating networks sequentially built as electroactive dielectric elastomers, **C. Tugui**, G. Stiubianu, M. Iacob, C. Ursu, A. Bele, S. Vlad, M. Cazacu J. Mater. Chem. C 2015, 3, 8963- 8969 (**IF: 5.256**);

- 3** Full silicone interpenetrating bi-networks with different organic groups attached to the silicon atoms, **C. Tugui**, M. Cazacu, L. Sacarescu, A. Bele, G. Stiubianu, C. Ursu, C. Racles Polymer 2015, 77, 312-322 (**IF: 3.684**);
- 4** Superparamagnetic amorphous iron oxide nanowires self-assembled into ordered layered structures, M. Iacob, D. Sirbu, **C. Tugui**, G. Stiubianu, L. Sacarescu, V. Cozan, A. Zelenakova, E. Cizmar, A. Feherc and M. Cazacu; RSC Adv. 2015, 5, 62563 (**IF: 3.108**);
- 5** New dielectric elastomers with improved properties for energy harvesting and actuation, G. Stiubianu, A. Bele, **C. Tugui**, V Musteata, Proc. of SPIE Vol. 9258 925808-1, 2015;
- 6** Highly stretchable composites from PDSM and polyazomethine fine particles, Carmen Racles, V. E. Musteata, A. Bele, M. Dascalu, **C. Tugui**, A-L Matriarcala, RCS Adv. 2015, 5, 102599-102609 (**IF: 3.108**);
- 7** Changes induced in the properties of dielectric silicone elastomers by the incorporation of transition metal complexes, G. Stiubianu, A.M.C. Dumitriu, C.D. Varganici, **C. Tugui**, M. Iacob, A. Bele, M. Cazacu High Perform. Polym. 2016, 28, 8, 915-926 (**IF: 1.142**);
- 8** Interpenetrating poly(urethane-urea)- polydimethylsiloxane networks designed as active elements in electromechanical transducers, **C. Tugui**, S. Vlad, M. Iacob, C. D. Varganici, L. Pricop and M. Cazacu, Polym. Chem. 2016, 7, 2709-2719 (**IF: 5.375**);
- 9** Dielectric silicone elastomers filled with in situ generated polar silsesquioxanes: Preparation, characterization and evaluation of electromechanical performance, A. Bele, M. Dascalu, **C. Tugui**, M. Iacob, C. Racles, L. Sacarescu, M. Cazacu, Materials & Design 2016, 106, 454-462 (**IF: 4.364**);
- 10** Dielectric elastomers based on silicones filled with transitional metal complexes, G. Stiubianu, A. Soroceanu, C-D. Varganici, **C. Tugui**, M. Cazacu, Composites Part B Engineering 2016, 93, 236-243 (**IF: 4.727**);
- 11** Aging behavior of the silicone dielectric elastomers in simulated marine environment, A. Bele, G. Stiubianu, S. Vlad, **C. Tugui**, C.D. Varganici, L. Matricala, D. Ionita, D. Timpu, M. Cazacu, RSC Adv. 2016, 6, 8941-8955 (**IF: 3.108**);
- 12** From iron coordination compounds to metal oxide nanoparticles, M. Iacob, C. Racles, **C. Tugui**, G. Stiubianu, A. Bele, L. Sacarescu, D. Timpu and Maria Cazacu, Beilstein J. Nanotechnol. 2016, 7, 2074–2087 (**IF: 3.127**);
- 13** Dielectric elastomers with dual piezo-electrostatic response optimized through chemical design for electromechanical transducers, C. Tugui, A. Bele, V. Tiron, E. Hamciuc, C. D. Varganici, M Cazacu, J. Mater. Chem. C 2017, 5, 824-834 (**IF: 5.256**) selectat ca HOT Paper;
- 14** All-silicone elastic composites with counter-intuitive piezoelectric response, designed for electromechanical applications, C. Racles, M. Dascalu, A. Bele, V. Tiron, M. Asandulesa, **C. Tugui**, A. L. Vasiliu, M. Cazacu, J. Mater. Chem. C 2017, doi: 10.1039/C7TC02201H (**IF: 5.256**).

Conferinte invitate/plenare/keynotes sustinute la manifestari stiintifice

- 1** Metallic compliant electrodes for dielectric silicone elastomers, **Codrin Tugui**, Cristian Ursu, Magdalena Aflori, Maria Cazacu EAP Workshop 2014, Electromechanically Active Polymer (EAP) transducers & artificial muscle, Queen Mary University of London, 25-26 November, London, UK;
- 2** New dielectric elastomers with improved properties for energy harvesting and actuation, George Stiubianu, Adrian Bele, **Codrin Tugui**, Valentina Musteata, ATOM-N 2014 The 7th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies" 21 - 24 august 2014, Constanta, Romania;
- 3** Silicone-Iron oxide nanocomposites with improved dielectric and mechanical properties, George Stiubianu, Mihail Iacob, **Codrin Tugui**, Maria Cazacu, Carmen Racles, Constantin Turta, The International Conference dedicated to the 55th anniversary from the foundation of the Institute of Chemistry of the Academy of Sciences of Moldova 25-26 mai 2014 Chisinau, Republica Moldova;
- 4** Siloxane-lignin elastomers for energy harvesting, George Stiubianu, Adrian Bele, Mihail Iacob, **Codrin Tugui**, Valentina Musteata, Maria Cazacu XXIIIrd Romanian Chemistry Conference October 1-3 2014 Calimanesti-Caciulata Valcea, Romania;
- 5** Silicone materials optimized for energy harvesting application, Maria Cazacu, Adrian Bele, Carmen Racles, George Stiubianu, **Codrin Tugui**, Mircea Ignat, EAP Workshop 2014, Electromechanically Active Polymer (EAP) transducers & artificial muscles 25-26 November 2014, London, UK;
- 6** Managing silicone electromechanical properties through inorganic nanoparticles fillers, Mihail Iacob, George Stiubianu, **Codrin Tugui**, Adrian Bele, Maria Cazacu, 14th World Renewable Energy Congress - WREC 2015, 8-12 iunie 2015, Bucuresti, Romania;
- 7** μ 3-oxotrinuclear iron carboxy-clusters as effective alternative sources for their oxide nanoparticles, Mihail Iacob, Carmen Racles, **Codrin Tugui**, George Stiubianu, Maria Cazacu, 15th International Balkan Workshop on Applied Physics, 2-4 iunie 2015, Constanta, Romania;
- 8** Preparation of magnetic nanoparticles for biomedical applications, Mihail Iacob, Maria Cazacu, Carmen Racles, Xenia Patras, George Stiubianu, **Codrin Tugui**, Adrian Bele, Liviu Sacarescu, Constantin Turta, Congres Internațional "Pregatim Viitorul Promovand Excelenta", editia XXV-a, sectiunea B – Repere in medicina moderna, 26 februarie-1 martie 2015, Universitatea Apolonia, Iasi, Romania;
- 9** Dielectric elastomers transducers as medical devices, **Codrin Tugui**, Cristian Ursu, Magdalena Aflori, George Stiubianu, Mihail Iacob, Adrian Bele, Xenia Patras, Maria Cazacu, Congres Internațional "Pregatim Viitorul Promovand Excelenta", ediția XXV-a, sectiunea B – Repere in medicina moderna, 26 februarie-1 martie 2015, Universitatea Apolonia, Iasi, Romania;



10 Electrozi flexibili pentru generatoare de energie, Adrian Bele, Mihai Asandulesa, **Codrin Tugui**, Mihail Iacob, Maria Cazacu, A XXV-a Sesiune de Comunicari Stiintifice a Institutului de Chimie Macromoleculara „Petru Poni” (ZILELE ACADEMICE IESENE), 24-26 septembrie 2015, Iasi, Romania;

11 Elastomeri dielectrici pe baza de retele siliconice bimodale, **Codrin Tugui**, George Stiubianu, Mihail Iacob, Cristian Ursu, Maria Cazacu, A XXV-a Sesiune de Comunicari Stiintifice a Institutului de Chimie Macromoleculara „Petru Poni” (ZILELE ACADEMICE IESENE), 24-26 septembrie 2015, Iasi, Romania;

12 Elastomeri dielectrici cu aplicații în conversia de energie, **Tugui Codrin**, Conferința Știinta Moderna si Energia, editia XXXIII-a, 14-15 Mai 2015, Cluj-Napoca, România;

13 Dielectric elastomers optimized through interpenetration strategies, **Codrin Tugui**, Adrian Bele, Stelian Vlad, Carmen Racles, Maria Cazacu, EIGHTH CRISTOFOR I. SIMIONESCU SYMPOSIUM – FRONTIERS IN MACROMOLECULAR AND SUPRAMOLECULAR SCIENCE, 29 May – 3 June 2016, Iasi, Romania;

14 Enhancement of carbon dimers formation in graphite excimer laser ablation plasma, Cristian Ursu, **Codrin Tugui**, Petru Edward Nica; The 6th National conference of applied physics 26–27 november 2016, Iasi, Romania.

Postere

1 Full silicone interpenetrating bi-networks with different organic groups to the silicon atoms **Codrin Tugui**, Maria Cazacu, Stelian Vlad, Cristian Ursu, EuroEAP 2014: Intl. Conference on EAP transducers & artificial muscles, 10-11 June 2014, Linköping, Sweden;

2 Strategies and own results on the development and optimization of silicone materials for electromechanical applications Maria Cazacu, Carmen Racles, George Stiubianu, Adrian Bele, **Codrin Tugui** EuroEAP 2014: Intl. Conference on EAP transducers & artificial muscles, 10-11 June 2014, Linköping, Sweden;

3 Superparamagnetic iron oxide nanowires self-assembled into smectic crystal, Mihail Iacob, **Codrin Tugui**, Dumitru Sirbu, George Stiubianu, Maria Cazacu, The XVIII-th International Conference "Physical Methods in Coordination and Supramolecular Chemistry" (dedicated to the memory of professor Constantin Turta and professor Mihail Revenco), 8-9 octombrie 2015, Chișinau, Republica Moldova;

4 Bimodal silicone networks as dielectric elastomers, **Codrin Tugui**, George Stiubianu, Mihail Iacob, Cristian Ursu, Cristian-Dragos Varganici, Maria Cazacu, 5th international conference on Electromechanically Active Polymer (EAP) transducers & artificial muscles, 9-10 iunie 2015, Tallinn, Estonia;

5 High breakdown strength composites based on silicone and ceramic nanotubes, Adrian Bele, **Codrin Tugui**, Carmen Racles, Maria Cazacu, EuroEAP 2016 6th international conference on Electromechanically Active Polymer (EAP) transducers & artificial muscles, Helsingor, Danemark;

6 Ultra-thin stretchable silver electrodes as compared with PDMS-based electrodes designed for energy harvesting, **Codrin Tugui**, Cristian Ursu, Adrian Bele, Mihail Iacob, Maria Cazacu, EuroEAP 2016 6th international conference on Electromechanically Active Polymer (EAP) transducers & artificial muscles, Helsingor, Danemark;

7 Synthetic approach to obtain silicone-based elastomers with improved electromechanical properties, Maria Cazacu, **Codrin Tugui**, EuroEAP 2016 6th international conference on Electromechanically Active Polymer (EAP) transducers & artificial muscles, Helsingor, Danemark;

8 Comparative approaches to high performance stretchable electrodes, **Codrin Tugui**, Maria Cazacu; EuroEAP 2017 7th International conference on Electromechanically Active Polymer (EAP) transducers & artificial muscles, 6-7 June **2017**, Cartagena, Spain;

9 Polysiloxane-polyimide semi-interpenetrated networks with dual electromechanical response, Maria Cazacu, **Codrin Tugui**, Bele Adrian, Elena Hamciuc; EuroEAP 2017: 7th International conference on Electromechanically Active Polymer (EAP) transducers & artificial muscles, 6-7 June **2017**, Cartagena, Spain;

10 Functionalized silicones showing giant actuation strains, Adrian Bele, **Codrin Tugui**, Mihaela Dascalu, Carmen Racles, Maria Cazacu; EuroEAP 2017: 7th International conference on Electromechanically Active Polymer (EAP) transducers & artificial muscles, 6-7 June **2017**, Cartagena, Spain.

Granturi/proiecte/contracte cu finantare din strainatate

1 PolyWEC (www.polywec.org, prj. ref. 309139), autori: tip proiect: a FET-Energy project that is partially funded by the 7th Framework Programme of European Community and co-financed by UEFISCDI (Contract 205EU), beneficiar: Ins. de Chimie Macromoleculara Petru Poni, Iasi;

2 Romanian National Authority for Scientific Research and Innovation, CNCS/CCCDI-UEFISCDI, project number PN-III-P2-2.1-PED-2016-0188, within PNCDI III (Grant 68PED / 2017).

Stagii in strainatate

1 COST Action, European Network on smart inorganic polymers, COST-TS-ECOST-TRAINING SCHOOL CM1302-250914-049000, 25-30 September 2014, Graz - Austria, Trieste - Italy;

**2 COST Action, ESNAM Training School on Dielectric Elastomers 2014 25-27 March 2014,
Darmstadt, Germany.**

Alte activitati

- 1 Membru in comitetul de diseminare si informare al European Society for Electromechanically Active Polymer, EuroEAP;**
- 2 Workshop IEEE: How to write a basic technical paper?, 7 mai 2015 Iasi, Romania;**
- 3 "Acțiuni transnaționale de sprijin a participării cu succes în cadrul Programului-cadru pentru cercetare și inovare al UE ORIZONT 2020 – actHORIZ", 10-13 octombrie 2016, Iasi, Romania.**

Indice Hirsch: 5 (google scholar)

A handwritten signature in black ink, appearing to read "Mihai" or a similar name.