

Christos L. Chochos

Senior Researcher
Institute of Chemical Biology



Phone: +302107273888 (office), +302107273844 (lab)

E-mail: chochos@eie.gr

Website: http://www.eie.gr/nhrf/institutes/ibmcb/index-en_ibmcb_research_personnel.html

Researcher unique identifier(s): **orcid.org/ 0000-0002-7783-157X**

EDUCATION

- 2006 PhD in Polymer Science and Technology
Interdepartmental (Chemistry, Physics, Chemical Engineering, Materials Science and Engineering), University of Patras, Greece
- 2004 M.S. in Polymer Science and Technology
Interdepartmental (Chemistry, Physics, Chemical Engineering, Materials Science and Engineering), University of Patras, Greece
- 2001 B.S. in Chemistry
Chemistry department, University of Patras, Greece

CURRENT POSITION

- 2022 Senior Researcher at the Institute of Chemical Biology at the National Hellenic Research Foundation (ICB/NHRF)

PREVIOUS POSITIONS

- 2018 - 2022 Associate Researcher at the Institute of Chemical Biology at the National Hellenic Research Foundation (ICB/NHRF)
- 2012 - 2024 Director of research at Advent Technologies SA
- 2015 - 2017 Research Associate at the National Hellenic Research Foundation (NHRF), Athens, Greece
- 2015 - 2017 Research Associate at the Polymeric Materials' Laboratory Department of Materials Science and Engineering, University of Ioannina, Greece
- 2013 - 2015 Marie Curie Intra European Research Fellow at the Polymeric Materials' Laboratory Department of Materials Science and Engineering, University of Ioannina, Greece
- 2011 - 2012 PostDoc Fellow in the Institute of Chemical Engineering Sciences (ICE-HT), Foundation for Research and Technology Hellas (FORTH) Patras, Greece

- 2009 - 2011 PostDoc Fellow in the Department of Mechanical Engineering and Materials Science and Engineering of the Cyprus University and Technology, Limassol, Cyprus
- 2008 - 2009 PostDoc Fellow in the Laboratoire d'Ingénierie des Polymères pour les Hautes Technologies (LIPHT), Université Louis Pasteur, Ecole Européenne de Chimie, Polymères et Matériaux (E-ECPM), and Centre National de la Recherche Scientifique (CNRS) Strasbourg, France

FELLOWSHIPS & AWARDS

1. 2021: Award winner of the year for best inventions in Greece from the Hellenic Industrial Property Organisation (OBI). €10.000.
2. Marie Curie Intra-European Fellowship (IEF) Call: FP7-PEOPLE-2012-IEF (2013-2015) Budget 162.000 Euro, Grant agreement no.: 331389. Title: "*Development of Low Band Gap Conjugated Polymers by EcoFriendly Synthetic Methodologies for High Performance Organic Photovoltaics (ECO-CHEM)*". This fellowship ranked 1st in Europe in the IEF calls with an excellent score of 98.4/100.

COMPETITIVE RESEARCH PROJECTS

Last 3 years (2022-2025)

1. "Development of efficient third generation PV materials and devices to enhance the competitiveness of enterprises to the green energy production (3GPV-4INDUSTRY)" Call: Flagship actions in interdisciplinary scientific areas with special interest for the connection to the productive fabric, Greece 2.0 - National Recovery and Resilience Plan, GSRI. At National Hellenic Research Foundation (NHRF); Project Number: TAEDR 0537347; PI: Christos Chochos 205.000 EUR
2. "Incorporating Conjugated Polymers and Non Fullerene Materials of Long Exciton Lifetimes and Low Synthetic Complexity Into Printable Indoor Organic Photovoltaics From Sustainable Solvents (iPHOS)" Call: Hellenic Foundation for Research and Innovation (H.F.R.I.), Sub-action 2 "Funding Projects in Leading Edge Sectors", Basic Research Financing (Horizontal support for all Sciences), National Recovery and Resilience Plan (Greece 2.0); At National Hellenic Research Foundation (NHRF); Project Number: 017007; PI: Christos Chochos 400.000 EUR
3. "Advanced Conjugated Polymers for Near-IR Visualization and Energy Conversion (OMIROS)" 2nd Call for H.F.R.I.'s Research Projects to Support Faculty Members & Researchers Physical Science Category I; At National Hellenic Research Foundation (NHRF); Project Number: 4697; PI: Christos Chochos 200.000 EUR

Participation as member in the following two projects:

1. 2021 Participation to the establishment of NHRF Center of Excellence funded by the RRF with €30.700.000 which will focus on Theranostics and bioelectronic applications.
2. 2021 EU4H-2021-JA-04 Direct grants to Member states' authorities: network of Comprehensive Cancer Centers: Establishment of new EU Network of Expertise on Cancers and Cancer Conditions (AWP Ref.: DP/C-g-10.1.3)- Budget: 4 000 000 EUR.

CURRENT RESEARCH INTERESTS

The strategic plan of the **Laboratory of Conjugated Polymers for Healthcare, Bioelectronics and Bioimaging** is the study of conjugated polymers optoelectronic properties for imaging, diagnosis and therapeutic application in order to enhance existing processes and produce innovative new products. The activities of the Laboratory are focusing on the interplay between the science of conjugated polymers and their biological function towards healthcare, bioelectronics and bioimaging applications.

PUBLICATIONS IN PEER REVIEW SCIENTIFIC JOURNALS

Total publications: 91

Google Scholar: H-index = 36; Total citations: 3836

(91) "Surfactant-Free Stable Aqueous Shortwave Infrared Amphiphilic π -Conjugated Polymer Nanoparticles"

Schiza, A.; Nega, A.; Dimitrakopoulou-Strauss, A.; Gregoriou, V. G.; **Chochos, C. L.*** (**corresponding author**) *Macromol. Rapid Commun.* **2025**, *46*, 2400739. (Impact Factor 2023: **6.0**)

(90) "Floating Microplastics in a Hypersaline Mediterranean Coastal Lagoon: Abundance, Chemical Composition, and Influence of Environmental Parameters"

Simantiris, N.; Theocharis, A.; Avlonitis, M.; **Chochos, C. L.**; Gregoriou, V. G. *J. Hazard. Mater. Adv.* **2025**, *17*, 100611. (Impact Factor 2023: **7.2**)

(89) "Pulmonary Drug Delivery through Responsive Materials"

Politakos, N.; Gregoriou, V. G.; **Chochos, C. L.** *Macromol.* **2024**, *4* (3), 490–508. (Impact Factor 2023: **4.5**)

(88) "Reducing Voltage Losses in Organic Photovoltaics Requires Interfacial Disorder Management"

Wang, R.; Han, L.; Li, N.; **Chochos, C. L.**; Gregoriou, V. G.; Lüer, L.; Brabec, C. J. *Adv. Energy Mater.* **2024**, *14* (26), 2400609. (Impact Factor 2023: **29.4**)

(87) "First Evaluation of Microplastics in Juveniles of the Invasive Blue Crab *Callinectes sapidus* from a Mediterranean Coastal Lagoon"

Simantiris, N.; Cladas, Y.; **Chochos, C. L.**; Gregoriou, V. G.; Koutsikopoulos, C.; et al. *Estuar. Coast. Shelf Sci.* **2024**, *302*, 108775. (Impact Factor 2023: **5.1**)

(86) "Rational Design of New Conjugated Polymers with Main-Chain Chirality for Efficient Optoelectronic Devices: Carbo[6]Helicene and Indacenodithiophene Copolymers as Model Compounds"

Gedeon, C.; Del Rio, N.; Furlan, F.; Taddeucci, A.; Vanthuyne, N.; Gregoriou, V. G.; **Chochos, C. L.* (corresponding author)**; et al. *Adv. Mater.* **2024**, *36* (25), 2314337. (Impact Factor 2023: **30.8**)

(85) "Aggregation-Driven Photoinduced α -C(sp³)-H Bond Hydroxylation/C(sp³)-C(sp³) Coupling of Boron Dipyrromethene Dye in Water Reported by Near-Infrared Emission"

Shahu, A.; Petropoulos, V.; Saridakis, E.; Petrakis, V. S.; Ioannidis, N.; Mitrikas, G.; **Chochos, C. L.**; et al. *J. Am. Chem. Soc.* **2024**, *146* (23), 15659–15665. (Impact Factor 2023: **20.4**)

(84) "Biomedical Applications, Perspectives and Tag Design Concepts in the Cell-Silent Raman Window"

Vardaki, M. Z.; Gregoriou, V. G.; **Chochos, C. L.* (corresponding author)** *RSC Chem. Biol.* **2024**, *5* (4), 273–292. (Impact Factor 2023: **4.2**)

(83) "Enhanced sub-1 eV Detection in Organic Photodetectors through Tuning Polymer Energetics and Microstructure"

Jacoutot, P.; Scaccabarozzi, A. D.; Nodari, D.; Panidi, J.; Qiao, Z.; Schiza, A.; **Chochos, C. L.**; ... *Science Advances* **2023**, *9*, eadh2694. (Impact Factor 2023: **11.7**)

(82) "Chemical Characterisation of Artists' Spray-Paints: A Diagnostic Tool for Urban Art Conservation"

Marazioti, V.; Douvas, A. M.; Katsaros, F.; Koralli, P.; **Chochos, C. L.**; Gregoriou, V. G.; ... *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2023**, *291*, 122375. (Impact Factor 2023: **4.3**)

(81) "Synthesis and Characterization of Hybrid Materials Derived from Conjugated Copolymers and Reduced Graphene Oxide"

Lazanas, A. C.; Katsouras, A.; Spanos, M.; Manesi, G.-M.; Moutsios, I.; Vashurkin, D. V.; Moschovas, D.; Gregoriou, V. G.; Ivanowv, D. A.; **Chochos, C. L.**; Avgeropoulos, A. *Polymers* **2022**, *14*, 5292. (*Impact Factor 2021*: **4.967**)

(80) "Development of a Multi-Enzymatic Approach for the Modification of Biopolymers with Ferulic Acid"

Giannakopoulou, A.; Tsapara, G.; Troganis, A.N.; Koralli, P.; **Chochos, C. L.**; Polydera, A.C.; Katapodis, P.; Barkoula, N.-M.; Stamatis, H. *Biomolecules* **2022**, *12*, 992. (*Impact Factor 2021*: **6.064**)

(79) "Porous organic polymers in solar cells"

Zhang, T.; Gregoriou, V. G.; Gasparini, N.; **Chochos, C. L.** *Chem. Soc. Rev.* **2022**, *51*, 4465-4483. (*Impact Factor 2021*: **60.615**)

(78) "Defect passivation in perovskite solar cells using an amino-functionalized BODIPY fluorophore"

Soultati, A.; Tountas, A.; Fakharuddin, A.; Skoulikidou, M.-C.; Verykios, A.; Armadorou, K.-K.; Tzoganakis, N.; Vidali, V. P.; Sakellis, I.; Koralli, P.; **Chochos, C. L.**; Petsalakis, I.; Nikoloudakis, E.; Palilis, L. C.; Filippatos, P.-P.; Argitis, P.; Davazoglou, D.; Yusoff, A. R. b. M.; Kymakis, E.; Coutsolelos, A. G.; Vasilopoulou, M. *Sustain. Energy Fuels* **2022**, *6*, 2570-2580. (*Impact Factor 2021*: **6.813**)

(77) "Enhancing the lifetime of inverted perovskite solar cells using a new hydrophobic hole transport material"

Loizos, M.; Tountas, M.; Tzoganakis, N.; **Chochos, C. L.**; Nega, A.; Schiza, A.; Polyzoidis, C.; Gregoriou, V. G.; Kymakis, E. *Energy Adv.* **2022**, *1*, 312-320.

(76) "Seasonal evaluation of floating microplastics in a shallow Mediterranean coastal lagoon: Abundance, distribution, chemical composition, and influence of environmental factors"

Simantiris, N.; Vardaki, M. Z.; Koralli, P.; **Chochos, C. L.**; Gregoriou, V. G.; Kourkouvelis, N.; Avlonitis, M. *Estuar. Coast. Shelf Sci.* **2022**, 107859. (*Impact Factor 2021*: **3.229**)

(75) "Infrared Organic Photodetectors Employing Ultralow Bandgap Polymer and Non-fullerene Acceptors for Biometric Monitoring"

Jacoutot, P.; Scaccabarozzi, A. D.; Zhang, T.; Qiao, Z.; Aniés, F.; Neophytou, M.; Bristow, H.; Kumar, R.; Moser, M.; Nega, A.; Dimitrakopoulou-Strauss, A.; Gregoriou, V. G.;

Anthopoulos, T. D.; Heeney, M.; McCulloch, I.; Bakulin, A. A.; **Chochos, C. L.**; Gasparini, N. *Small* **2022**, *18*, 2200580. (*Impact Factor 2021*: **15.153**)

(74) "High efficiency blue organic light-emitting diodes with below-bandgap electroluminescence"

Vasilopoulou, M.; Yusoff, A. R. bin M.; Daboczi, M.; Conforto, J.; Gavim, A. E. X.; da Silva, W. J.; Macedo, A. G.; Soultati, A.; Schneider, F. K.; Dong, Y.; Jacoutot, P.; Rotas, G.; Jang, J.; Vougioukalakis, G. C.; **Chochos, C. L.**; Kim, J.-S.; Gasparini, N. *Nat. Commun.* **2021**, *12*, 4868. (*Impact Factor 2020*: **14.919**)

(73) "Rational Design of New Aqueous Conjugated Polymer Nanoparticles as Theranostic Agents of Breast Cancer"

Koralli, P.; Tsikalakis, S.; Goulielmaki, M.; Arelaki, S.; Muller, J.; Nega, A. D.; Schiza, A.; Herbst, F.; Gregoriou, V. G.; Dimitrakopoulou-Strauss, A.; Wiemann, S.; **Chochos, C. L.* (co-corresponding author)** *Mater. Chem. Front.* **2021**, *5*, 4950-4962. (*Impact Factor 2020*: **6.482**)

(72) "Green Inks for the Fabrication of Organic Solar Cells: A Case Study on PBDTTPD:PC₆₁BM bulk-heterojunctions"

Sprau, C.; Cruz, A. M.; Pérez, L. B.; Molina, L.; Wagner, M.; **Chochos, C. L.**; Pirriera, M. D.; Colsmann, A. *Advanced Energy and Sustainability Research* **2021**, *2*, 2100043. (*Impact Factor 2020*: **New**)

(71) "PEDOT:PSS:sulfonium salt composite hole injection layers for efficient organic light emitting diodes"

Verykios, A.; Pistolis, G.; Bizas, L.; Tselios, C.; Tsikritzis, D.; Kennou, S.; **Chochos, C. L.**; Mouzakis, D. E.; Skandamis, P. N.; Yusoff, A. R. bin M.; Palilis, L. C.; Argitis, P.; Vasilopoulou, M.; Soultati, A. *Org. Electron.* **2021**, *93*, 106155. (*Impact Factor 2020*: **3.721**).

(70) "Adjusting the Interfacial States Energy in Organic Photovoltaics for Maximum Efficiency"

Gasparini, N.; Camargo, F. V. A.; Frühwald, S.; Nagahara, T.; Classen, A.; Roland, S.; Wadsworth, A.; Gregoriou, V. G.; **Chochos, C. L.**; Neher, D.; Salvador, M.; Baran, D.; McCulloch, I.; Görling, A.; Luer, L.; Cerullo, G.; Brabec, C. J. *Nat. Commun.* **2021**, *12*, 1772. (*Impact Factor 2020*: **14.919**)

(69) "Far-Red to Near Infrared Emissive Aqueous Nanoparticles Based on a New Organic Material with Three BODIPY Dyes at the Periphery of the Core: A Combined Experimental and Theoretical Study."

Squeo, B. M.; Avramopoulos, A.; Nega, A. D.; Pavlou, A.; Siskos, M. G.; Koralli, P.; Schiza, A.; Dimitrakopoulou-Strauss, A.; Gregoriou, V. G.; **Chochos, C. L.* (co-corresponding author)** *Electron. Mater.* **2021**, 2, 24-38. (*Impact Factor 2020*: **New**)

(68) "Structural study of hydroxylpropyl-methyl cellulose microemulsion based gels used for biocompatible encapsulations"

Vassiliadi, E.; Mitsou, E.; Avramiotis, S.; **Chochos, C. L.**; Pirolt, F.; Medebach, M.; Glatter, O.; Xenakis, A.; Zoumpanioti, M. *Nanomaterials* **2020**, 10, 2204. (*Impact Factor 2020*: **5.076**)

(67) "The role of exciton lifetime for charge generation in organic solar cells at negligible energy level offsets"

Classen, A.; **Chochos, C. L.**; Lüer, L.; Gregoriou, V. G.; Wortmann, J.; Osvet, A.; Forberich, K.; McCulloch, I.; Heumueller, T.; Brabec, C. J. *Nat. Energy* **2020**, 5, 711 - 719. (*Impact Factor 2020*: **60.858**)

(66) "High Performance Conjugated Terpolymers as Electron Donors in Nonfullerene Organic Solar Cells"

Paleti, S. H. K.; Gasparini, N.; **Chochos, C. L.* (co-corresponding author)**; Baran, D. *J. Mater. Chem. C* **2020**, 8, 13422 - 13429. (*Impact Factor 2020*: **7.393**).

(65) "New Conjugated Polymer Nanoparticles with High Photoluminescence Quantum Yields for Far-red and Near Infrared Fluorescence Bioimaging"

Koralli, P.; Nega, A. D.; Vagiaki, L. E.; Pavlou, A.; Siskos, M. G.; Dimitrakopoulou-Strauss, A.; Gregoriou, V. G.; **Chochos, C. L.* (corresponding author)** *Mater. Chem. Front.* **2020**, 4, 2357 - 2369. (*Impact Factor 2020*: **6.482**)

(64) "Revealing the structural effects of non-fullerene acceptors on the performances of ternary organic photovoltaics under indoor light conditions"

Singh, R.; Duan, T.; Kan, Z.; **Chochos, C. L.**; Kini, G. P.; Kumar, M.; Park, J.; Lee, J.; Lee, J.-J. *Nano Energy* **2020**, 75, 104934. (*Impact Factor 2020*: **17.881**)

(63) "Unravelling the complex nanomorphology of ternary organic solar cells with multimodal analytical transmission electron microscopy"

Rechberger, S.; Gasparini, N.; Singh, R.; Kim, M.; **Chochos, C. L.**; Gregoriou, V. G.; Cho, K.; Brabec, C. J.; Ameri, T.; Spiecker, E. *Sol. RRL* **2020**, *4*, 2000114. (*Impact Factor 2020*: **8.582**)

(62) "Highly Efficient Indoor Organic Solar Cells by Voltage Loss Minimization through Fine-Tuning of Polymer Structures"

Singh, R.; **Chochos, C. L.* (co-corresponding author)**; Gregoriou, V. G.; Nega, A. D.; Kim, M.; Kumar, M.; Shin, S.-C.; Kim, S. H.; Shim, J. W.; Lee, J.-J. *ACS Appl. Mater. Interfaces* **2019**, *11*, 36905 – 36916. (*Impact Factor 2020*: **9.229**).

(61) "Monitoring Fluorescent Calcium Signals in Neural Cells with Organic Photodetectors"

Rezaei-Mazinani, S.; Ivanov, A. I.; Biele, M.; **Chochos, C. L.**; Rutz, A.; Gregoriou, V. G.; Avgeropoulos, A.; Tedde, S. F.; Bernard, C.; O'Connor, R.; Malliaras, G. G.; Ismailova, E. *J. Mater. Chem. C* **2019**, *7*, 9049-9056. (*Impact Factor 2020*: **7.393**).

(60) "Current Status, Challenges and Future Outlook of High Performance Polymer Semiconductors for Organic Photovoltaics Modules"

Chochos, C. L.* (co-corresponding author); Spanos, M.; Katsouras, A.; Tatsi, E.; Drakopoulou, S.; Gregoriou, V. G.; Avgeropoulos, A. *Prog. Polym. Sci.* **2019**, *91*, 51 - 79. (*Impact Factor 2020*: **29.190**).

(59) "Effect of Aryl Substituents and Fluorine Addition in a High Efficiency Indacenodithienothiophene-alt-Quinoxaline *n*-Conjugated Polymer on the Optoelectronic Properties and Organic Solar Cell Performance"

Tatsi, E.; Spanos, M.; Katsouras, A.; Squeo, B. M.; Fall, S.; Heiser, T.; L  v  que, P.; Gregoriou, V. G.; Avgeropoulos, A.; Leclerc, N.; **Chochos, C. L.* (co-corresponding author)** *Macromol. Chem. Phys.* **2019**, *220*, 1800418. (*Impact Factor 2020*: **2.527**).

(58) "Thermal Stabilization of the Bulk-Heterojunction Morphology in Polymer:Fullerene Solar Cells Using a Bisazide Cross-Linker"

Landerer, D.; Sprau, C.; Baumann, D.; Pingel, P.; Leonhard, T.; **Chochos, C. L.**; Zimmermann, D.; Kr  ger, H.; Janietz, S.; Colmann, A. *Solar RRL* **2019**, *3*, 1800266. (*Impact Factor 2020*: **8.582**)

(57) "Experimental and Theoretical Investigations on the Optical and Electrochemical Properties of Donor-Acceptor-Donor Small Molecules Toward a Universal Model"

Chochos, C. L.* (co-corresponding author); Chavez-Vasquez, P.; L  v  que, P.; Heiser, T.; Spanos, M.; Tatsi, E.; Katsouras, A.; Avgeropoulos, A.; Gregoriou, V. G.; Leclerc, N. *J. Chem. Phys.* **2018**, *149*, 124902/1-9. (*Impact Factor 2020*: **3.488**).

(56) "Suppressing the Surface Recombination and Tuning the Open Circuit Voltage of Polymer/Fullerene Solar Cells by Implementing an Aggregative Ternary Compound"

Galli, D.; Gasparini, N.; Forster, M.; Eckert, A.; Widling, C.; Killian, M. S.; Avgeropoulos, A.; Gregoriou, V. G.; Scherf, U.; **Chochos, C. L.**; Brabec, C. J.; Ameri, T. *ACS Appl. Mater. Interfaces* **2018**, *10*, 28803 - 28811. (*Impact Factor 2020*: **9.229**).

(55) "Electron-transporting Thiazole-based polymer synthesized through direct (hetero)arylation polymerization"

Chávez, P.; Bulut, I.; Fall, S.; Ibraikulov, O.; **Chochos, C. L.**; Lévêque, P.; Leclerc, N. *Molecules* **2018**, *23*, 1270. (*Impact Factor 2020*: **4.411**).

(54) "Synthesis of D- π -A- π type Benzodithiophene-Quinoxaline Copolymers by Direct Arylation and their Application in Organic Solar Cells"

Zimmermann, D.; Sprau, C.; Schröder, J.; Gregoriou, V. G.; Avgeropoulos, A.; **Chochos, C. L.**; Colsmann, A.; Janietz, S.; Krüger, H. *J. Polym. Sci. Part A: Polym. Chem.* **2018**, *56*, 1457 - 1467. (*Impact Factor 2020*: **2.93**).

(53) "High Performance Organic Photodetectors From a High Bandgap Indacenodithiophene-based π -conjugated D-A Polymer"

Benavides, C. M.; Murto, P.; **Chochos, C. L.**; Gregoriou, V. G.; Avgeropoulos, A.; Xu, X.; Bini, K.; Andersson, M. R.; Schmidt, O.; Brabec, C. J.; Wang, E.; Tedde, S. F. *ACS Appl. Mater. Interfaces* **2018**, *10*, 12937 - 12946. (*Impact Factor 2020*: **9.229**).

(52) "Enhancement the Power Conversion Efficiency of Organic Solar Cells via Unveiling the Appropriate Rational Design Strategy in Indacenodithiophene-alt-Quinoxaline π -Conjugated Polymers"

Chochos, C. L.* (co-corresponding author); Singh, R.; Gregoriou, V. G.; Kim, M.; Katsouras, A.; Serpetzoglou, E.; Konidakis, I.; Stratakis, E.; Cho, K.; Avgeropoulos, A. *ACS Appl. Mater. Interfaces* **2018**, *10*, 10236 - 10245. (*Impact Factor 2020*: **9.229**).

(51) " α,β -Unsubstituted meso-Positioning Thienyl BODIPY: A Promising Electron Deficient Building Block for the Development of Near Infrared (NIR) p-type Quaterthiophene Donor-Acceptor (D-A) Conjugated Polymers"

Squeo, B. M.; Gregoriou, V. G.; Han, Y.; Palma-Cando, A.; Serpetzoglou, E.; Allard, S.; Avgeropoulos, A.; Stratakis, E.; Anthopoulos, T. D.; Heeney, M.; Scherf, U.; **Chochos, C. L.* (corresponding author)** *J. Mater. Chem. C* **2018**, *6*, 4030 - 4040. (*Impact Factor 2020*: **7.393**).

(50) "4H-1,2,6-Thiadiazine-containing donor-acceptor conjugated polymers: synthesis, optoelectronic characterization and use in organic solar cells"

Chochos, C. L.* (co-corresponding author); Kalogirou, A. S.; Ye, T.; Tatsi, E.; Katsouras, A.; Zisimou, G. A.; Gregoriou, V. G.; Avgeropoulos, A.; Koutentis, P. A. *J. Mater. Chem. C* **2018**, 6, 3658 - 3667. (*Impact Factor 2020*: **7.393**).

(49) "New N-Type Solution Processable All Conjugated Polymer Network. Synthesis, Optoelectronic Characterization and Application in Organic Solar Cells"

Bildirir, H.; Di Carlo Rasi, D.; Wienk, M. M.; Janssen, R. A. J.; Avgeropoulos, A.; Gregoriou, V. G.; Allard, S.; Scherf, U.; **Chochos, C. L.* (co-corresponding author)** *Macromol. Rapid Commun.* **2018**, 39, 1700629. (*Impact Factor 2020*: **5.734**).

(48) "Effects of alkyl side chains positioning and presence of fused aromatic units in the backbone of low-bandgap diketopyrrolopyrrole copolymers on the optoelectronic properties of organic solar cells"

Chochos, C. L.* (co-corresponding author); Katsouras, A.; Drakopoulou, S.; Miskaki, C.; Krassas, M.; Tzourmpakis, P.; Kakavelakis, G.; Sprau, C.; Colsmann, A.; Squeo, B. M.; Gregoriou, V. G.; Kymakis, E.; Avgeropoulos, A. *J. Polym. Sci. Part A: Polym. Chem.* **2018**, 56, 138 - 146. (*Impact Factor 2020*: **2.93**).

(47) "The Role of Chemical Structure in Indacenodithienothiophene-alt-Benzothiadiazole Copolymers for High Performance Organic Solar Cells With Improved Photo-Stability Through Minimization of Burn-in Loss"

Chochos, C. L.* (co-corresponding author); Leclerc, N.; Gasparini, N.; Zimmerman, N.; Tatsi, E.; Katsouras, A.; Moschovas, D.; Serpetzoglou, E.; Konidakis, I.; Fall, S.; L  v  que, P.; Heiser, T.; Spanos, M.; Gregoriou, V. G.; Stratakis, E.; Ameri, T.; Brabec, C. J.; Avgeropoulos, A. *J. Mater. Chem. A* **2017**, 5, 25064 - 25076. (*Impact Factor 2020*: **12.732**).

(46) "Impact of the catalytic system to the formation of structural defects for the synthesis of well-defined donor-acceptor semiconducting polymers"

Spanos, M.; Gregoriou, V. G.; Avgeropoulos, A.; **Chochos, C. L.* (corresponding author)** *Macromol. Chem. Phys.* **2017**, 218, 1700283. (*Impact Factor 2020*: **2.527**).

(45) "Highly Efficient Solid-State Near-infrared Organic Light-Emitting Diodes incorporating A-D-A Dyes based on α,β -unsubstituted "BODIPY" Moieties"

Zampetti, A.; Minotto, A.; Squeo, B. M.; Gregoriou, V. G.; Allard, S.; Scherf, U.; **Chochos, C. L.* (co-corresponding author);** Franco Cacialli* *Sci. Rep.* **2017**, 7, 1611. (*Impact Factor 2020*: **4.379**).

(44) "Optimization of the power conversion efficiency in high bandgap naphthodithiophene-based conjugated polymers for organic photovoltaics by the random terpolymer approach"

Gedefaw, D.; Sharma, A.; Pan, X.; Bjuggren, J.; Kroon, R.; Gregoriou, V. G.; **Chochos, C. L.**; Andersson, M. R. *Eur. Polym. J.* **2017**, 91, 92 - 99. (*Impact Factor 2020*: **4.598**).

(43) "BODIPY-based Polymeric Dyes as Emerging Horizon Materials for Biological Sensing and Organic Electronic Applications"

Squeo, B. M.; Gregoriou, V. G.; Avgeropoulos, A.; Baysec, S.; Allard, S.; Scherf, U.; **Chochos, C. L. * (corresponding author)** *Prog. Polym. Sci.* **2017**, 71, 26 - 52. (*Impact Factor 2020*: **29.190**).

(42) "Porous Organic Polymers as Emerging New Materials for Organic Photovoltaic Applications: Current Status and Future Challenges"

Bildirir, H.; Gregoriou, V. G.; Avgeropoulos, A.; Scherf, U.; **Chochos, C. L. * (co-corresponding author)** *Mater. Horiz.* **2017**, 4, 546. (*Impact Factor 2020*: **13.266**).

(41) "Beyond Donor-Acceptor (D-A) Approach: Structure-Optoelectronic Properties-Organic Photovoltaic Performance Correlation in New D-A₁-D-A₂ Low Band Gap Conjugated Polymers"

Chochos, C. L. * (co-corresponding author); Drakopoulou, S.; Katsouras, A.; Squeo, B. M.; Sprau, C.; Colsmann, A.; Gregoriou, V. G.; Cando, A.-P.; Allard, S.; Scherf, U.; Gasparini, N.; Ameri, T.; Brabec, C. J.; Avgeropoulos, A. *Macromol. Rapid Commun.* **2017**, 38, 1600720. (*Impact Factor 2020*: **5.734**).

(40) "Indacenodithienothiophene-Based Ternary Organic Solar Cells: Concept, Devices and optoelectronic analysis"

Gasparini, N.; Rodriguez, E. A. G.; Katsouras, A.; Avgeropoulos, A.; Pagona, G.; Gregoriou, V. G.; **Chochos, C. L.**; Allard, S.; Scherf, U.; Brabec, C. J.; Ameri, T. *Front. Energy Res.* **2017**, 4, 40. (*Impact Factor 2020*: **4.008**).

(39) "Rational Design of High Performance Wide Bandgap Gap (~2 eV) Polymer Semiconductors as Electron Donors in Organic Photovoltaics Exhibiting High Open Circuit Voltage (1 V)"

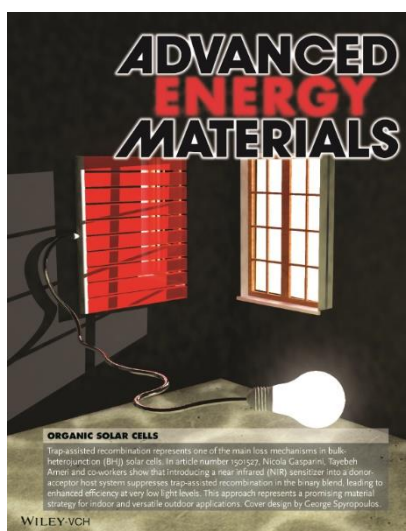
Chochos, C. L. * (corresponding author); Katsouras, A.; Gasparini, N.; Koulogiannis, C.; Ameri, T.; Brabec, C. J.; Avgeropoulos, A. *Macromol. Rapid Commun.* **2017**, 38, 1600614. (*Impact Factor 2020*: **5.734**).

(38) "Enhancement of the power conversion efficiency in organic photovoltaics by unveiling the appropriate polymer backbone enlargement approach"

Chochos, C. L.* (co-corresponding author); Singh, R.; Kim, K.; Gasparini, N.; Katsouras, A.; Kulshreshtha, C.; Gregoriou, V. G.; Keivanidis, P. E.; Ameri, T.; Brabec, C. J.; Cho, K.; Avgeropoulos, A. *Adv. Funct. Mater.* **2016**, 26, 1840. (*Impact Factor 2020: 18.81*).

(37) "An Alternative Strategy to Adjust the Recombination Mechanism of Organic Photovoltaics by Implementing Ternary Compounds"

Gasparini, N.; Salvador, M.; Fladischer, S.; Katsouras, A.; Avgeropoulos, A.; Spiecker, E.; **Chochos, C. L.;** Brabec, C. J.; Ameri, T. *Adv. Energy Mater.* **2015**, 5, 1501527. (*Impact Factor 2020: 29.37*). A Frontispiece Cover in Advanced Energy Materials has been published (<http://onlinelibrary.wiley.com/doi/10.1002/aenm.201570132/full>) for this work.



(36) "Systematic Analysis of Polymer Molecular Weight Influence on the Organic Photovoltaic Performance"

Katsouras, A.; Gasparini, N.; Koulogiannis, C.; Spanos, M.; Ameri, T.; Brabec, C. J.; **Chochos, C. L.* (corresponding author);** Avgeropoulos A. *Macromol. Rapid Commun.* **2015**, 36, 1778-1797. (*Impact Factor 2020: 5.734*). This work has been highlighted in MaterialsViews (7 October 2015) with the title "How to find the "optimal" molecular weight for photovoltaic polymers". (<http://www.materialsviews.com/find-optimal-molecular-weight-photovoltaic-polymers/>)

(35) "Ultra Low Band Gap α,β -unsubstituted BODIPY-based Copolymer Synthesized by Palladium Catalyzed Cross-Coupling Polymerization for Near Infrared Organic photovoltaics"

Squeo, B. M.; Gasparini, N.; Ameri, T.; Palma-Caldo, A.; Allard, S.; Gregoriou, V. G.; Brabec, C. J.; Scherf, U.; **Chochos, C. L. * (corresponding author)** *J. Mater. Chem. A* **2015**, *3*, 16279-16286. (*Impact Factor 2020*: **12.732**).

(34) "Photophysics of molecular weight induced losses in indacenodithienothiophene-based solar cells"

Gasparini, N.; Katsouras, A.; Prodromidis, M. I.; Avgeropoulos, A.; Baran, D.; Salvador, M.; Fladischer, S.; Spiecker, E.; **Chochos, C. L.**; Ameri, T.; Brabec, C. J. *Adv. Funct. Mater.* **2015**, *25*, 4898-4907. (*Impact Factor 2020*: **18.81**).

(33) "Using pyridal[2,1,3]thiadiazole as an acceptor unit in a low band-gap copolymer for photovoltaic applications"

Ibraikulov, O. A.; Bechara, R.; Chavez, P.; Bulut, I.; Tastanbekov, D.; Leclerc, N.; Hebraud, A.; Heinrich, B.; Berson, S.; Lemaitre, N.; **Chochos, C. L.**; L  v  que, P.; Heiser, T. *Org. Electron.* **2015**, *23*, 171 - 178. (*Impact Factor 2020*: **3.721**).

(32) "Impact of thienothiophene isomeric structures on the optoelectronic properties and photovoltaic performance in quinoxaline based donor-acceptor copolymers"

Singh, R.; Pagona, G.; Gregoriou, V. G.; Tagmatarchis, N.; Toliopoulos, D.; Han, Y.; Fei, Z.; Katsouras, A.; Avgeropoulos, A.; Anthopoulos, T. D.; Heeney, M.; Keivanidis, P. E.; **Chochos, C. L. * (corresponding author)** *Polym. Chem.* **2015**, *6*, 3098-3109. (*Impact Factor 2020*: **5.582**).

(31) "The role of the ethynylene bond on the optical and electronic properties of diketopyrrolopyrrole copolymers"

Pattanasattayavong, P.; Sygletou, M.; Kymakis, E.; Stratakis, E.; Yan, F.; Gregoriou, V. G.; Anthopoulos, T. D.; **Chochos, C. L. * (corresponding author)** *RSC Adv.* **2014**, *4*, 58404-58411. (*Impact Factor 2020*: **3.361**).

(30) "Influence of the Electron Deficient Co-monomer on the Optoelectronic Properties and Photovoltaic Performance of Dithienogermole-based Co-polymers"

Yau, C. P.; Fei, Z.; Ashraf, R. S.; Shahid, M.; Watkins, S. E.; Pattanasattayavong, P.; Anthopoulos, T. D.; Gregoriou, V. G.; **Chochos, C. L. * (co-corresponding author)**; Heeney, M. *Adv. Funct. Mater.* **2014**, *24*, 678-687. (*Impact Factor 2020*: **18.81**).

(29) "Novel BODIPY-based Conjugated Polymers Donors for Organic Photovoltaic Applications"

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D. D. C.; Itskos, G.; Koutentis, P. A.; Choulis, S. A. *RSC Adv.* **2013**, *3*, 10221-10229. (*Impact Factor 2020*: **3.361**).

(28) "Rational Design on N-Type Organic Materials for High Performance Organic Photovoltaics"

Chochos, C. L.* (Corresponding author); Tagmatarchis, N.; Gregoriou, V. G. *RSC Adv.* **2013**, *3*, 7160-7181. (*Impact Factor 2020*: **3.361**).

(27) "Theoretical Study of Phenyl-substituted Indacenodithiophene Copolymers for High Performance Organic Photovoltaics"

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(26) "2-(2,3,4,5,6-Pentafluorophenyl)-1H-benzo[d]imidazole, a fluorine-rich building block for the preparation of conjugated polymer donors for organic solar cell applications" Neophytou, M.; Ioannidou, H. A.; Ioannou, T. A.; **Chochos, C. L.**; Economopoulos, S. P.; Koutentis, P. A.; Itskos, G.; Choulis, S. A. *Polym. Chem.* **2012**, *3*, 2236-2243. (*Impact Factor 2020*: **5.582**).

(25) "3,6-dialkylthieno[3,2-b]thiophene moiety as a soluble and electron donating unit preserving the coplanarity of photovoltaic low band-gap copolymers"

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(24) "Optimization of the side-chain density to improve the charge transport and photovoltaic performances of a low band gap copolymer"

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(23) "High Performance Polymer Electrolytes Based on Main and Side Chain Pyridine Aromatic Polyethers For High and Medium Temperature PEM Fuel Cells"

Geormezi, M.; **Chochos, C. L.**; Gourdoupi, N.; Neophytides, S.; Kallitsis, J. K. *J. Power Sources* **2011**, *196*, 9382-9390. (*Impact Factor 2020*: **9.127**).

(22) "How the Structural Deviations on the Backbone of Conjugated Polymers Influence Their Optoelectronic Properties and Photovoltaic Performance"

Chochos, C. L.* (Corresponding author); Choulis S. A. *Prog. Polym. Sci.* **2011**, *36*, 1326-1414. (*Impact Factor 2020*: **29.190**).

(21) "Impact of the Alkyl Side Chains on the Optoelectronic Properties of a Series of Photovoltaic Low-Band-Gap Copolymers"

Binieć, L.; Fall, S.; **Chochos, C. L.**; Anokhin, D. V.; Ivanov, D. A.; Leclerc, N.; Lévêque, P.; Heiser, T. *Macromolecules* **2010**, *43*, 9779-9786. (*Impact Factor 2020*: **5.985**). Listed as one of the 20 most downloaded articles for *Macromolecules* in Nov. 2010 - Jan. 2011.

(20) "Electronic Properties and Photovoltaic Performances of a Series of Oligothiophene Copolymers Incorporating Both Thieno[3,2-b]thiophene and 2,1,3-Benzothiadiazole Moieties"

Binieć, L.; **Chochos, C. L.**; Hadziioannou, G.; Leclerc, N.; Lévêque, P.; Heiser, T. *Macromol. Rapid Commun.* **2010**, *31*, 651-656. (*Impact Factor 2020*: **5.734**).

(19) "A [3,2-b]Thienothiophene-alt-Benzothiadiazole Copolymer for Photovoltaic Applications: Design, Synthesis, Material Characterization and Device Performances"

Binieć, L.; **Chochos, C. L.* (co-corresponding author)**; Leclerc, N.; Bechara, R.; Lévêque, P.; Kallitsis, J.; Heiser, T.; Hadziioannou, G. *J. Mater. Chem.* **2009**, *19*, 4946-4951. (*Impact Factor 2012*: **6.101**).

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Ismailova, E.; Tiron, R.; **Chochos, C. L.**; Brochon, C.; Bandelier, P.; Perret, D.; Sourd, C.; Brault, C.; Serra, C. A.; Schlatter, G.; Hadziioannou, G. *Microelectron. Eng.* **2009**, *86*, 796-799. (*Impact Factor 2020*: **2.523**).

(17) "Hyperbranched Polymers For Photolithographic Applications – Towards Understanding the Relationship Between Chemical Structure of Polymer Resin and Lithographic Performances"

Chochos, C. L.; Ismailova, E.; Brochon, C.; Leclerc, N.; Tiron, R.; Sourd, C.; Bandelier, P.; Foucher, J.; Ridaoui, H.; Dirani, A.; Soppera, O.; Perret, D.; Brault, C.; Serra, C. A.; Hadziioannou, G. *Adv. Mater.* **2009**, *21*, 1121-1125. (*Impact Factor 2020*: **30.85**).

(16) "End-Functionalization of Semiconducting Species With Dendronized Terpyridine-Ru(II)-Terpyridine Complexes"

Pefkianakis, E. K.; Tzanetos, N. P.; **Chochos, C. L.**; Andreopoulou, A. K.; Kallitsis, J. K. *J. Polym. Sci. Part A: Polym. Chem.* **2009**, *47*, 1939-1952. (*Impact Factor 2020*: **2.93**).

(15) "The Role of Intrachain and Interchain Interactions of Regioregular Poly(3-octylthiophene) Chains on the Optical Properties of a New Amphiphilic Conjugated Random Copolymer in Solution"

Stefopoulos, A. A.; **Chochos, C. L.* (Corresponding author)**; Bokias, G.; Kallitsis, J. K. *Langmuir* **2008**, *24*, 11103-11110. (*Impact Factor 2020*: **3.882**).

(14) "Novel Hybrid Materials Consisting of Regioregular Poly(3-octylthiophene)s Covalently Attached on Single Wall Carbon Nanotubes"

Stefopoulos, A. A.; **Chochos, C. L.**; Prato, M.; Pistolis, G.; Papagelis, K.; Petraki, F.; Kennou, S.; Kallitsis, J. K. *Chem. Eur. J.* **2008**, *14*, 8715-8724. (*Impact Factor 2020*: **5.236**).

(13) "Immobilization of Oligoquinoline Chains on Single-Wall Carbon Nanotubes and their Optical Behaviour"

Chochos, C. L.; Stefopoulos, A. A.; Campidelli, S.; Prato, M.; Gregoriou V. G.; Kallitsis, J. K. *Macromolecules* **2008**, *41*, 1825-1830. (*Impact Factor 2020*: **5.985**).

(12) "New Rod – Coil Block Copolymers Consisting of Terfluorene Segments and Electron Transporting Units as the Flexible Blocks"

Chochos, C. L.; Tzanetos, N. P.; Economopoulos, S. P.; Gregoriou, V. G.; Kallitsis, J. K. *Eur. Polym. J.* **2007**, *43*, 5065-5075. (*Impact Factor 2020*: **4.598**).

(11) "Synthesis of a Soluble N-type Cyano Substituted Polythiophene Derivative – Potential Electron Acceptor in Polymeric Solar Cells"

Chochos, C. L.; Economopoulos, S. P.; Deimede, V.; Gregoriou, V. G.; Lloyd, M. T.; Malliaras, G. G.; Kallitsis, J. K. *J. Phys. Chem. C* **2007**, *111*, 10732-10740. (*Impact Factor 2020*: **4.126**).

(10) "Synthesis and Characterization of Random Copolymers Combining Terfluorene Segments and Hole or Electron Transporting Moieties"

Chochos, C. L.; Tzanetos, N. P.; Economopoulos, S. P.; Gregoriou, V. G.; Kallitsis, J. K. *J. Macrom. Sci. Pure and Appl. Chem. A* **2007**, *44*, 923-930. (*Impact Factor 2020*: **2.168**).

(9) "Novel brush-type copolymers bearing thiophene backbone and side chain quinoline blocks. Synthesis and their use as a compatibilizer in thiophene-quinoline polymer blends"

Economopoulos, S. P.; **Chochos, C. L.**; Gregoriou, V. G.; Kallitsis, J. K.; Barrau, S.; Hadziioannou, G. *Macromolecules* **2007**, *40*, 921-927. (*Impact Factor 2020*: **5.985**).

(8) "Thermally Stable Blue Emitting Terfluorene Block Copolymers"

Chochos, C. L.; Kallitsis, J. K.; Keivanidis, P. E.; Balushev, S.; Gregoriou, V. G. *J. Phys. Chem. B* **2006**, *110*, 4657-4662. (*Impact Factor 2020*: **2.991**).

(7) "Synthesis and Optical Properties on a Series of Polyethers Incorporating Terfluorene Segments and Methylene Spacers"

Chochos, C. L.; Papakonstandopoulou, D.; Economopoulos, S. P.; Gregoriou, V. G.; Kallitsis, J. K. *J. Macrom. Sci. Pure and Appl. Chem. A* **2006**, 43, 419-431. (*Impact Factor 2020*: **2.168**).

(6) "Synthesis, optical and morphological characterization of soluble main chain 1,3,4-oxadiazole copolyarylethers – potential candidates for solar cells applications as electron acceptors"

Chochos, C. L.; Govaris, G. K.; Kakali, F.; Yiannoulis, P.; Kallitsis, J. K.; Gregoriou, V. G. *Polymer* **2005**, 46, 4654-4663. (*Impact Factor 2020*: **4.430**).

(5) "Rod-Coil Block Copolymers Incorporating Terfluorene Segments for Stable Blue Light Emission"

Chochos, C. L.; Kallitsis, J. K.; Gregoriou, V. G. *J. Phys. Chem. B* **2005**, 109, 8755-8760. (*Impact Factor 2020*: **2.991**).

(4) "Synthesis and Characterization of Conjugated Polymers and Their Blends for Optoelectronic Applications"

Economopoulos, S. P.; Govaris, G. K.; **Chochos, C. L.**; Andreopoulou, A. K.; Tzanetos, N. P.; Kallitsis, J. K.; Yianoulis, P.; Gregoriou, V. G. *Macromol. Symp.* **2004**, 205, 19-32. (*Impact Factor 2020*: **0.85**).

(3) "Influence of the Coil Block on the Properties of Rod-Coil Diblock Copolymers with Oligofluorene as the Rigid Segment"

Chochos, C. L.; Tsolakis, P. K.; Gregoriou, V. G.; Kallitsis, J. K. *Macromolecules* **2004**, 37, 2502-2510. (*Impact Factor 2020*: **5.985**).

(2) "Correlation of the Molecular Orientation and Photonic Properties of Rigid-Flexible Aromatic Polyethers Using FT-IR Linear Dichroism and Photoluminescence Spectroscopic Techniques"

Chochos, C. L.; Kandilioti, G.; Deimede, V. A.; Gregoriou, V. G. *J. Macrom. Sci. Pure and Appl. Chem. A* **2002**, 39, 1317-1333. (*Impact Factor 2020*: **2.168**).

(1) "Simple syntheses of cyclic polyamines using selectively N-tritylated polyamines and succinic anhydride"

Militsopoulou, M.; Tsiakopoulos, N.; **Chochos, C.**; Magoulas, G.; Papaioannou, D. *Tetrahedron Lett.* **2002**, 43, 2593-2596. (*Impact Factor 2020*: **2.415**).

PUBLICATIONS IN PEER REVIEW CONFERENCE PROCEEDINGS

1. "Bulk Heterojunction Photovoltaic Cells from Polymer Mixtures with Soluble Oxadiazole and Quinoline Polymers as Electron Acceptors" Economopoulos, S. P.; **Chochos, C. L.**; Govaris, G. K.; Yiannoulis, P.; Kallitsis, J. K.; Gregoriou, V. G. *Mater. Res. Soc. Symp. Proc.* **2005**, *836*, L5.16.1. In *Materials for Photovoltaics*, edited by Michael Durstock, Daniel Friedman, Russell Gaudiana, and Angus Rockett.
2. "On the Origin of Color Degradation in Polyfluorenes – Block Copolymer Approach for Stable Blue Light Emission" **Chochos, C. L.**; Kallitsis, J. K.; Gregoriou, V. G. *Mater. Res. Soc. Symp. Proc.* **2005**, *856E*, BB2.9. In *Multicomponent Polymer Systems-Phase Behavior, Dynamics and Applications*, edited by K. I. Winey, M. Dadmun, C. Leibig, and R. Oliver.
3. "Alkoxy side chains in low band-gap co-polymers: impact on conjugation and frontier energy levels" Biniek, L.; **Chochos, C. L.**; Leclerc, N.; Fall, S.; Lévêque, P.; Heiser, T. *Energy Procedia* **2012**, *31*, 38-45.

PATENTS

1. "Electroconductive Hydrogels based on poly(pyrrole)-poly(sodium vinylsulfonate) copolymers for Bioelectronic Applications" Greek Patent Application 2017- 01333 filed April 7, 2017. Co-inventors: **C. Chochos**, M. Spanos and V.G. Gregoriou. Assignee: National Hellenic Research Foundation.
2. "Electroconductive Hydrogels based on poly(thiophene)-poly(sodium acrylate) copolymers for Bioelectronic Applications" Greek Patent Application 2017- 01334 filed April 7, 2017. Co-inventors: **C. Chochos**, M. Spanos and V.G. Gregoriou. Assignee: National Hellenic Research Foundation.
3. "Electroconductive Hydrogels based on poly(ethylenedioxythiophene)-poly(sodium styrenesulfonate) copolymers for Bioelectronic Applications" Greek Patent Application 2017- 01335 filed April 7, 2017. Co-inventors: **C. Chochos**, M. Spanos and V.G. Gregoriou. Assignee: National Hellenic Research Foundation.
4. "Electroconductive Hydrogels based on poly(phenylene)-poly(potassium styrenesulfonate) copolymers for Bioelectronic Applications" Greek Patent Application 2017- 01336 filed April 7, 2017. Co-inventors: **C. Chochos**, M. Spanos and V.G. Gregoriou. Assignee: National Hellenic Research Foundation.
5. "Electroconductive Hydrogels based on poly(furan)-poly(potassium styrenesulfonate) copolymers for Bioelectronic Applications" Greek Patent Application 2017- 01337 filed April 7, 2017. Co-inventors: **C. Chochos**, M. Spanos and V.G. Gregoriou. Assignee: National Hellenic Research Foundation.

6. *"Thermally stable conductive polymers for electrochemical gas sensor applications"* US Patent Application 62635582 filed February 27, 2018. Co-inventors: E. S. De Castro, **C. Chocho**s, N. Gourdoupi, G. Paloumbis, V. Gregoriou. Assignee: Advent Technologies.
7. *"Ion-imbibed exchange membranes based on proton conducting aromatic polyether type copolymers and their application in redox flow batteries"* US Patent Application US62/791,115 filed January 23, 2019. Co-inventors: G. Paloumbis, **C. Chocho**s, E. S. De Castro, N. Gourdoupi, R. Pavlicek, M. Sharma, V. Gregoriou. Assignee: Advent Technologies.

ORGANIZATION OF CONFERENCES - SYMPOSIUM

1. Symposium organizer at E-MRS Fall Meeting Symposium September 2017 in Warsaw Poland, entitled "NIR Optoelectronics – Organic Semiconductors and Devices". The other members of the organizing committee are: Professor Ullrich Scherf, Professor Franco Cacialli and Dr. Ergang Wang

INVITED TALKS

1. *"Conjugated Polymers for Cancer Diagnosis and Therapy"*
Natural Sciences - Research - Medicines & Health: Integrated Approaches with a Human-Looking Look
NHRF, Athens, Greece. 9th April 2019
2. *"Up-scaling Synthesis of Conjugated Polymers for OPVs Production"*
8th Workshop "Boosting the Organic & Printed Electronics Industry in Greece
Thessaloniki, Greece. 30 May 2016.
3. *"High performance polymer semiconductors for organic photovoltaics: Design and multigram production efforts"*
MatHero Industrialisation Workshop, University of Barcelona.
Barcelona, Spain. 27 May 2016.
4. *"High Performance Polymer Semiconductors for Organic Photovoltaics: Design and Multigram Production Efforts"*
Research and Industry Forum on Organic Photovoltaics 2014. Karlsruhe Institute of Technology (KIT).
Karlsruhe, Germany. 19 November 2014.
5. *"Upscaling Conjugated Polymers for Organic Photovoltaics. Challenges and Limitations"*
International School: "Synthesis and Characterization of Conjugated Materials for Near IR Applications" 2014. Chalmers University of Technology.
Goteborg, Sweden. 25 - 26 September 2014.

6. *"How easy is the multigram production of the state of the art conjugated polymers for high performance organic photovoltaics?"*
Rhin-Solar International Summer School on Organic Photovoltaics 2014
Strasbourg, France. 1 - 4 September 2014
7. *"Development of Conjugated Polymers with Optimized Optical and Electronic Properties for Organic Photovoltaics"*,
Italian Institute of Technology (Polytechnic School of Milano)
Milan, Italy. 27 May 2014
8. *"Development of Conjugated Polymers with Optimized Optical and Electronic Properties for Organic Photovoltaics"*
Institute of Electronic Structure and Laser of the Foundation for Research and Technology-Hellas (IESL-FORTH)
Herakleion Crete, Greece. 12 March 2014
9. *"Development of Conjugated Polymers with Optimized Optical and Electronic Properties"*
Institute of Physical Chemistry at National Hellenic Research Foundation
Athens, Greece. 04 February 2014
10. *"Theoretical Design, Synthetic Procedures and Molecular Engineering of Low Band Gap Conjugated Polymers For High Performance Optoelectronic Applications"*
Summer School on "An Introduction to Organic Electronics & Applications"
Erasmus Intensive Program, Department of Electronics TEI of Crete
Chania Crete, Greece. July 2012.
11. *"Chemistry & Molecular Engineering of Low Band Gap Conjugated Polymers towards High Performance Solar Cells"*
Summer School on "An Introduction to Organic Electronics & Applications"
Erasmus Intensive Program, Department of Electronics TEI of Crete
Chania Crete, Greece. 3-17 July 2011.
12. *"Design and Synthesis of Luminescent Block Copolymers and Low Bandgap Conjugated Polymers for Various Optoelectronic Applications"*
Summer School on "An Introduction to Organic Electronics & Applications"
Erasmus Intensive Program, Department of Electronics TEI of Crete
Chania Crete, Greece. 5-16 July 2010.

TEACHING AND TRAINING EXPERIENCE

- *2013 - 2017(Fall Semester)*: Dr Chochos has integrated the science of conjugated polymer in the course: "Polymer Materials-Special Issues" (teaching hours in undergraduate students), which is an elective course focusing in applications of various types of polymers and polymer-related materials. Dr Chochos contributed

with three 3-hour lectures and the undergraduate students were also involved in handling a related project concerning conjugated polymers and their application in photovoltaic technology.

- *2013 - 2017 (Fall Semester):* Dr Chochos prepared and presented a new course on the application of conjugated polymers in organic electronic applications (graduate studies program, two 3-hour lectures).
- *2010-Fall Semester:* Independent teaching of the "Polymers/Biomaterials" course to the 4th year undergraduate students at the Department of Mechanical Engineering and Materials Science and Engineering of the Cyprus University of Technology
- *2010-Fall Semester:* Participation in the training of the 3rd year undergraduate students in the Processing Materials Laboratory Course at the Department of Mechanical Engineering and Materials Science and Engineering of the Cyprus University of Technology
- *2009-Fall Semester:* Participation in the Design of the Laboratory Exercises, Preparation of the Laboratory Notes and training of the 3rd year undergraduate students in the Processing Materials Laboratory Course at the Department of Mechanical Engineering and Materials Science and Engineering of the Cyprus University of Technology in collaboration with Associate Professor Stelios Choulis

[The title of the exercises are:

- (1) Synthesis of Materials (Polymers),
- (2) Processing of Conjugated polymers using Spin Coating Technique,
- (3) Processing of Conjugated Polymers using Doctor Blade Technique,
- (4) Characterization of the Optical properties of Conjugated Polymers in solution and as thin films
- (5) Evaporation and Deposition of Metals – Calculation of the power conversion efficiency of solar cells]

- *2005-Spring Semester:* Participation in the training of the 3rd year undergraduate students in the laboratory of the Physical Working Course of Chemistry Department, University of Patras

MEMBER IN SCIENTIFIC SOCIETIES

- 2001 Member of the Greek Chemical Society
- 2018 Member of the Hellenic Society of Biomaterials

JOURNAL REVIEWER

I am frequently reviewer in various scientific journals, such as:

- Advanced Materials (Wiley)

- Nature Communications
- Advanced Functional Materials (Wiley)
- Advanced Energy Materials (Wiley)
- Advanced Electronic Materials (Wiley)
- Small (Wiley)
- Macromolecular Rapid Communication (Wiley)
- ChemPlusChem (Wiley)
- Macromolecular Materials and Engineering (Wiley)
- Journal of the American Chemical Society (American Chemical Society)
- Journal of Physical Chemistry (American Chemical Society)
- ACS Applied Materials and Interfaces (American Chemical Society)
- Journal of Materials Chemistry (Royal Society)
- Journal of Materials Chemistry A (Royal Society)
- Journal of Materials Chemistry C (Royal Society)
- Polymer Chemistry (Royal Society)
- RSC Advances (Royal Society)
- Nanoscale (Royal Society)
- Physical Chemistry Chemical Physics (Royal Society)
- New Journal of Chemistry (Royal Society)
- Organic Electronics (Elsevier)
- Solar Energy Materials and Solar Cells (Elsevier)
- Carbon (Elsevier)
- European Polymer Journal (Elsevier)
- Materials Chemistry and Physics (Elsevier)
- Synthetic Metals (Elsevier)
- Materials Science and Engineering B (Elsevier)
- International Journal of Polymer Science (Hindawi Publishing Corporation)