

# Christos L Chochos

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

2,784  
citations

159585

30  
h-index

182427

51  
g-index

83  
all docs

83  
docs citations

83  
times ranked

3941  
citing authors

#	ARTICLE	IF	CITATIONS
1	How the structural deviations on the backbone of conjugated polymers influence their optoelectronic properties and photovoltaic performance. <i>Progress in Polymer Science</i> , 2011, 36, 1326-1414.	24.7	329
2	The role of exciton lifetime for charge generation in organic solar cells at negligible energy-level offsets. <i>Nature Energy</i> , 2020, 5, 711-719.	39.5	214
3	Rational design on n-type organic materials for high performance organic photovoltaics. <i>RSC Advances</i> , 2013, 3, 7160.	3.6	138
4	Porous organic polymers as emerging new materials for organic photovoltaic applications: current status and future challenges. <i>Materials Horizons</i> , 2017, 4, 546-556.	12.2	125
5	Impact of the Alkyl Side Chains on the Optoelectronic Properties of a Series of Photovoltaic Low-Band-Gap Copolymers. <i>Macromolecules</i> , 2010, 43, 9779-9786.	4.8	122
6	Highly Efficient Solid-State Near-infrared Organic Light-Emitting Diodes incorporating A-D-A Dyes based on 1,1',2,2'-unsubstituted $\beta$ -BODIPY Moieties. <i>Scientific Reports</i> , 2017, 7, 1611.	3.3	112
7	Rod-Coil Block Copolymers Incorporating Terfluorene Segments for Stable Blue Light Emission. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8755-8760.	2.6	77
8	Influence of the Coil Block on the Properties of Rod-Coil Diblock Copolymers with Oligofluorene as the Rigid Segment. <i>Macromolecules</i> , 2004, 37, 2502-2510.	4.8	70
9	BODIPY-based polymeric dyes as emerging horizon materials for biological sensing and organic electronic applications. <i>Progress in Polymer Science</i> , 2017, 71, 26-52.	24.7	67
10	Novel Brush-Type Copolymers Bearing Thiophene Backbone and Side Chain Quinoline Blocks. Synthesis and Their Use as a Compatibilizer in Thiophene-Quinoline Polymer Blends. <i>Macromolecules</i> , 2007, 40, 921-927.	4.8	64
11	High efficiency blue organic light-emitting diodes with below-bandgap electroluminescence. <i>Nature Communications</i> , 2021, 12, 4868.	12.8	62
12	A [3,2-b]thienothiophene-alt-benzothiadiazole copolymer for photovoltaic applications: design, synthesis, material characterization and device performances. <i>Journal of Materials Chemistry</i> , 2009, 19, 4946.	6.7	61
13	Photophysics of Molecular Weight-Induced Losses in Indacenodithienothiophene-Based Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 4898-4907.	14.9	61
14	Influence of the Electron Deficient Co-Monomer on the Optoelectronic Properties and Photovoltaic Performance of Dithienogermole-based Co-Polymers. <i>Advanced Functional Materials</i> , 2014, 24, 678-687.	14.9	59
15	An Alternative Strategy to Adjust the Recombination Mechanism of Organic Photovoltaics by Implementing Ternary Compounds. <i>Advanced Energy Materials</i> , 2015, 5, 1501527.	19.5	56
16	Systematic Analysis of Polymer Molecular Weight Influence on the Organic Photovoltaic Performance. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1778-1797.	3.9	49
17	Ultra low band gap 1,1',2,2'-unsubstituted BODIPY-based copolymer synthesized by palladium catalyzed cross-coupling polymerization for near infrared organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16279-16286.	10.3	49
18	Highly Efficient Indoor Organic Solar Cells by Voltage Loss Minimization through Fine-Tuning of Polymer Structures. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36905-36916.	8.0	49

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19	Synthesis of a Soluble n-Type Cyano Substituted Polythiophene Derivative: A Potential Electron Acceptor in Polymeric Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10732-10740.	3.1	46
20	High performance polymer electrolytes based on main and side chain pyridine aromatic polyethers for high and medium temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 9382-9390.	7.8	45
21	High-Performance Organic Photodetectors from a High-Bandgap Indacenodithiophene-Based $\pi$ -Conjugated Donor-Acceptor Polymer. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12937-12946.	8.0	42
22	Hyperbranched Polymers for Photolithographic Applications – Towards Understanding the Relationship between Chemical Structure of Polymer Resin and Lithographic Performances. <i>Advanced Materials</i> , 2009, 21, 1121-1125.	21.0	41
23	3,6-Dialkylthieno[3,2- <i>b</i> ]thiophene moiety as a soluble and electron donating unit preserving the coplanarity of photovoltaic low band gap copolymers. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1861-1868.	2.3	39
24	Infrared Organic Photodetectors Employing Ultralow Bandgap Polymer and Non-Fullerene Acceptors for Biometric Monitoring. <i>Small</i> , 2022, 18, e2200580.	10.0	39
25	Current status, challenges and future outlook of high performance polymer semiconductors for organic photovoltaics modules. <i>Progress in Polymer Science</i> , 2019, 91, 51-79.	24.7	36
26	Electronic Properties and Photovoltaic Performances of a Series of Oligothiophene Copolymers Incorporating Both Thieno[3,2- <i>b</i> ]thiophene and 2,1,3-Benzothiadiazole Moieties. <i>Macromolecular Rapid Communications</i> , 2010, 31, 651-656.	3.9	35
27	Synthesis, optical and morphological characterization of soluble main chain 1,3,4-oxadiazole copolyarylethers – potential candidates for solar cells applications as electron acceptors. <i>Polymer</i> , 2005, 46, 4654-4663.	3.8	34
28	Novel BODIPY-based conjugated polymers donors for organic photovoltaic applications. <i>RSC Advances</i> , 2013, 3, 10221.	3.6	33
29	Novel Hybrid Materials Consisting of Regioregular Poly( $\alpha$ -octylthiophene)s Covalently Attached to Single-Wall Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2008, 14, 8715-8724.	3.3	32
30	Optimization of the side-chain density to improve the charge transport and photovoltaic performances of a low band gap copolymer. <i>Organic Electronics</i> , 2012, 13, 114-120.	2.6	32
31	Revealing the structural effects of non-fullerene acceptors on the performances of ternary organic photovoltaics under indoor light conditions. <i>Nano Energy</i> , 2020, 75, 104934.	16.0	30
32	Enhancement of the Power Conversion Efficiency in Organic Photovoltaics by Unveiling the Appropriate Polymer Backbone Enlargement Approach. <i>Advanced Functional Materials</i> , 2016, 26, 1840-1848.	14.9	28
33	Immobilization of Oligoquinoline Chains on Single-Wall Carbon Nanotubes and Their Optical Behavior. <i>Macromolecules</i> , 2008, 41, 1825-1830.	4.8	27
34	Adjusting the energy of interfacial states in organic photovoltaics for maximum efficiency. <i>Nature Communications</i> , 2021, 12, 1772.	12.8	27
35	New conjugated polymer nanoparticles with high photoluminescence quantum yields for far-red and near infrared fluorescence bioimaging. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2357-2369.	5.9	25
36	The impact of thienothiophene isomeric structures on the optoelectronic properties and photovoltaic performance in quinoxaline based donor-acceptor copolymers. <i>Polymer Chemistry</i> , 2015, 6, 3098-3109.	3.9	24

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37	The role of chemical structure in indacenodithiophene- <i>alt</i> -benzothiadiazole copolymers for high performance organic solar cells with improved photo-stability through minimization of burn-in loss. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25064-25076.	10.3	24
38	$\hat{1},\hat{2}$ -Unsubstituted <i>meso</i> -positioning thienyl BODIPY: a promising electron deficient building block for the development of near infrared (NIR) p-type donor-acceptor (D-A) conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4030-4040.	5.5	22
39	Porous organic polymers in solar cells. <i>Chemical Society Reviews</i> , 2022, 51, 4465-4483.	38.1	21
40	Beyond Donor-Acceptor (D-A) Approach: Structure-Optoelectronic Properties-Organic Photovoltaic Performance Correlation in New D-A <sub>1</sub> -D-A <sub>2</sub> Low-Bandgap Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600720.	3.9	20
41	Rational Design of High-Performance Wide-Bandgap ( $\sim 2$ eV) Polymer Semiconductors as Electron Donors in Organic Photovoltaics Exhibiting High Open Circuit Voltages ( $\sim 1$ V). <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600614.	3.9	20
42	Synthesis of D-A type benzodithiophene-quinoxaline copolymers by direct arylation and their application in organic solar cells. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1457-1467.	2.3	20
43	Thermally Stable Blue Emitting Terfluorene Block Copolymers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4657-4662.	2.6	17
44	Theoretical study of phenyl-substituted indacenodithiophene copolymers for high performance organic photovoltaics. <i>Journal of Chemical Physics</i> , 2013, 138, 064901.	3.0	17
45	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. <i>Langmuir</i> , 2008, 24, 11103-11110.	3.5	16
46	Simple syntheses of cyclic polyamines using selectively N-tritylated polyamines and succinic anhydride. <i>Tetrahedron Letters</i> , 2002, 43, 2593-2596.	1.4	15
47	Suppressing the Surface Recombination and Tuning the Open-Circuit Voltage of Polymer/Fullerene Solar Cells by Implementing an Aggregative Ternary Compound. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28803-28811.	8.0	15
48	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. <i>Polymer Chemistry</i> , 2012, 3, 2236.	3.9	13
49	End-functionalization of semiconducting species with dendronized terpyridine-Ru(II)-terpyridine complexes. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1939-1952.	2.3	11
50	Enhancement of the Power-Conversion Efficiency of Organic Solar Cells via Unveiling an Appropriate Rational Design Strategy in Indacenodithiophene- <i>alt</i> -quinoxaline Conjugated Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10236-10245.	8.0	11
51	Thermal Stabilization of the Bulk Heterojunction Morphology in Polymer:Fullerene Solar Cells Using a Bisazide Cross-Linker. <i>Solar Rrl</i> , 2019, 3, 1800266.	5.8	11
52	4 <i>H</i> -1,2,6-Thiadiazine-containing donor-acceptor conjugated polymers: synthesis, optoelectronic characterization and their use in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3658-3667.	5.5	10
53	Experimental and theoretical investigations on the optical and electrochemical properties of $\hat{1}$ -conjugated donor-acceptor-donor (DAD) compounds toward a universal model. <i>Journal of Chemical Physics</i> , 2018, 149, 124902.	3.0	10
54	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. <i>Journal of Polymer Science Part A</i> , 2018, 56, 138-146.	2.3	9

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55	Indacenodithienothiophene-Based Ternary Organic Solar Cells. <i>Frontiers in Energy Research</i> , 2017, 4, .	2.3	8
56	Synthesis and characterization of conjugated polymers and their blends for optoelectronic applications. <i>Macromolecular Symposia</i> , 2004, 205, 19-32.	0.7	7
57	New rod-coil block copolymers consisting of terfluorene segments and electron transporting units as the flexible blocks. <i>European Polymer Journal</i> , 2007, 43, 5065-5075.	5.4	7
58	Optimization of the power conversion efficiency in high bandgap pyridopyridinedithiophene-based conjugated polymers for organic photovoltaics by the random terpolymer approach. <i>European Polymer Journal</i> , 2017, 91, 92-99.	5.4	7
59	New n-Type Solution Processable All Conjugated Polymer Network: Synthesis, Optoelectronic Characterization, and Application in Organic Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700629.	3.9	7
60	Monitoring fluorescent calcium signals in neural cells with organic photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9049-9056.	5.5	7
61	Unraveling the Complex Nanomorphology of Ternary Organic Solar Cells with Multimodal Analytical Transmission Electron Microscopy. <i>Solar Rrl</i> , 2020, 4, 2000114.	5.8	7
62	Rational design of aqueous conjugated polymer nanoparticles as potential theranostic agents of breast cancer. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4950-4962.	5.9	7
63	Green Inks for the Fabrication of Organic Solar Cells: A Case Study on PBDTPD:PC <sub>61</sub> BM Bulk Heterojunctions. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100043.	5.8	7
64	Defect passivation in perovskite solar cells using an amino-functionalized BODIPY fluorophore. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2570-2580.	4.9	7
65	Synthesis and Optical Properties on a Series of Polyethers Incorporating Terfluorene Segments and Methylene Spacers. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 419-431.	2.2	6
66	High performance conjugated terpolymers as electron donors in nonfullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13422-13429.	5.5	6
67	Impact of molecular structure of polymer in 193 nm resist performance. <i>Microelectronic Engineering</i> , 2009, 86, 796-799.	2.4	5
68	Using pyridal[2,1,3]thiadiazole as an acceptor unit in a low band-gap copolymer for photovoltaic applications. <i>Organic Electronics</i> , 2015, 23, 171-178.	2.6	5
69	An Electron-Transporting Thiazole-Based Polymer Synthesized Through Direct (Hetero)Arylation Polymerization. <i>Molecules</i> , 2018, 23, 1270.	3.8	5
70	Enhancing the lifetime of inverted perovskite solar cells using a new hydrophobic hole transport material. <i>Energy Advances</i> , 2022, 1, 312-320.	3.3	5
71	Effect of Aryl Substituents and Fluorine Addition on the Optoelectronic Properties and Organic Solar Cell Performance of a High Efficiency Indacenodithienothiophene-Quinoxaline Conjugated Polymer. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800418.	2.2	4
72	Structural Study of (Hydroxypropyl)Methyl Cellulose Microemulsion-Based Gels Used for Biocompatible Encapsulations. <i>Nanomaterials</i> , 2020, 10, 2204.	4.1	4

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73	The role of the ethynylene bond on the optical and electronic properties of diketopyrrolopyrrole copolymers. RSC Advances, 2014, 4, 58404-58411.	3.6	3
74	Impact of the Catalytic System on the Formation of Structural Defects for the Synthesis of Well-Defined Donor-Acceptor Semiconducting Polymers. Macromolecular Chemistry and Physics, 2017, 218, 1700283.	2.2	3
75	PEDOT:PSS:sulfonium salt composite hole injection layers for efficient organic light emitting diodes. Organic Electronics, 2021, 93, 106155.	2.6	2
76	Synthesis and Characterization of Random Copolymers Combining Terfluorene Segments and Hole or Electron Transporting Moieties. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 923-930.	2.2	1
77	Organic Solar Cells: An Alternative Strategy to Adjust the Recombination Mechanism of Organic Photovoltaics by Implementing Ternary Compounds (Adv. Energy Mater. 24/2015). Advanced Energy Materials, 2015, 5, .	19.5	1
78	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. Electronic Materials, 2021, 2, 24-38.	1.9	1
79	Development of a Multi-Enzymatic Approach for the Modification of Biopolymers with Ferulic Acid. Biomolecules, 2022, 12, 992.	4.0	1
80	CORRELATION OF THE MOLECULAR ORIENTATION AND PHOTONIC PROPERTIES OF RIGID-FLEXIBLE AROMATIC POLYETHERS USING FT-IR LINEAR DICHROISM AND PHOTOLUMINESCENCE SPECTROSCOPIC TECHNIQUES. Journal of Macromolecular Science - Pure and Applied Chemistry, 2002, 39, 1317-1333.	2.2	0
81	On the Origin of Color Degradation in Polyfluorenes - Block Copolymer Approach for Stable Blue Light Emission. Materials Research Society Symposia Proceedings, 2004, 856, BB2.9.1.	0.1	0
82	Bulk Heterojunction Photovoltaic Cells from Polymer Mixtures with Soluble Oxadiazole and Quinoline Polymers as Electron Acceptors. Materials Research Society Symposia Proceedings, 2004, 836, L5.16.1.	0.1	0