Abderrahim Yassar

List of Publications by Year in descending order

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132 8,014 42 88 papers citations h-index g-index

136 136 136 6837 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	All-Polymer Field-Effect Transistor Realized by Printing Techniques. Science, 1994, 265, 1684-1686.	12.6	1,370
2	Molecular engineering of organic semiconductors: design of self-assembly properties in conjugated thiophene oligomers. Journal of the American Chemical Society, 1993, 115, 8716-8721.	13.7	749
3	Growth and Characterization of Sexithiophene Single Crystals. Chemistry of Materials, 1995, 7, 1337-1341.	6.7	542
4	Polymorphism and Charge Transport in Vacuum-Evaporated Sexithiophene Films. Chemistry of Materials, 1994, 6, 1809-1815.	6.7	282
5	Effects of steric factors on the electrosynthesis and properties of conducting poly(3-alkylthiophenes). The Journal of Physical Chemistry, 1987, 91, 6706-6714.	2.9	267
6	Field-effect transistor made with a sexithiophene single crystal. Advanced Materials, 1996, 8, 52-54.	21.0	224
7	Porous Metalâ^'Organic Truncated Octahedron Constructed from Paddle-Wheel Squares and Terthiophene Links. Journal of the American Chemical Society, 2005, 127, 12752-12753.	13.7	205
8	Conductivity and conjugation length in poly(3-methylthiophene) thin films. Macromolecules, 1989, 22, 804-809.	4.8	187
9	Exciton Coupling Effects in the Absorption and Photoluminescence of Sexithiophene Derivatives. The Journal of Physical Chemistry, 1995, 99, 9155-9159.	2.9	179
10	New poly[(silylene)diacetylenes] and poly[(germylene)diacetylenes]: synthesis and conductive properties. Organometallics, 1992, 11, 2500-2506.	2.3	137
11	Surface engineering for high performance organic electronic devices: the chemical approach. Journal of Materials Chemistry, 2010, 20, 2513.	6.7	133
12	DNA detection with a water-gated organic field-effect transistor. Organic Electronics, 2012, 13, 1-6.	2.6	127
13	All-organic field-effect transistors made of π-conjugated oligomers and polymeric insulators. Synthetic Metals, 1993, 54, 435-445.	3.9	125
14	Rod–coil and all-conjugated block copolymers for photovoltaic applications. Progress in Polymer Science, 2013, 38, 791-844.	24.7	125
15	Magnetic properties of ferrocene-based conjugated polymers. Advanced Materials, 1994, 6, 564-568.	21.0	121
16	Two-layer light-emitting diodes based on sexithiophene and derivatives. Advanced Materials, 1994, 6, 752-755.	21.0	120
17	ESR and optical spectroscopy evidence for a chain-length dependence of the charged states of thiophene oligomers. Extrapolation to polythiophene. Synthetic Metals, 1994, 62, 245-252.	3.9	96
18	Synthesis and characterization of a tetra-alkylated alpha-conjugated duodecithiophene. Advanced Materials, 1992, 4, 490-494.	21.0	94

#	Article	IF	Citations
19	Electrochemical coupling of dialkylated sexithiophene. Advanced Materials, 1992, 4, 107-110.	21.0	93
20	Low-Operating-Voltage Organic Transistors Made of Bifunctional Self-Assembled Monolayers. Advanced Functional Materials, 2007, 17, 597-604.	14.9	90
21	Electrochemical Probing of DNA Based on Oligonucleotide-Functionalized Polypyrrole. Biomacromolecules, 2001, 2, 58-64.	5.4	87
22	Cyano-Substituted Oligothiophenes: A New Approach to n-Type Organic Semiconductors. Advanced Functional Materials, 2002, 12, 699-708.	14.9	87
23	Preparation and electroactivity of poly(thiophene) electrodes modified by electrodeposition of palladium particles. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 255, 53-69.	0.1	85
24	Organosilicon polymers: synthesis of poly[(silanylene)diethynylene]s with conducting properties. Chemistry of Materials, 1990, 2, 351-352.	6.7	84
25	Enzyme Recognition by Polypyrrole Functionalized with Bioactive Peptides. Journal of the American Chemical Society, 1994, 116, 8813-8814.	13.7	82
26	Optical response and emission waveguiding in rubrene crystals. Physical Review B, 2007, 75, .	3.2	81
27	Molecular order in organic-based field-effect transistors. Synthetic Metals, 1996, 81, 163-171.	3.9	78
28	Selective synthetic routes to electroconductive organosilicon polymers containing thiophene units. Chemistry of Materials, 1991, 3, 8-10.	6.7	71
29	Tuning of the Electronic and Optical Properties of Oligothiophenes via Cyano Substitution:Â A Joint Experimental and Theoretical Study. Journal of Physical Chemistry B, 1997, 101, 4553-4558.	2.6	68
30	Cyclic voltammetry and differential cyclic voltabsorptometry of soluble oligothiophenes: evidence for a four-fold charged π-dimer in duodecithiophene. Journal of Electroanalytical Chemistry, 1995, 399, 97-103.	3.8	63
31	Electrosynthesis of highly conducting poly(3-methylthiophene) thin films. Journal of the Chemical Society Chemical Communications, 1988, , 581.	2.0	62
32	Crystal structure of \hat{l}_{\pm} , \hat{l}_{∞} -bis(triisopropylsilyl)-sexithiophene: Unusual conjugated chain distortion induced by interchain steric effects. Advanced Materials, 1994, 6, 660-663.	21.0	62
33	Electrocatalytic oxidation of hydrogen, formic acid and methanol on platinum modified copolymer (pyrrole-dithiophene) electrodes. Journal of Applied Electrochemistry, 1990, 20, 524-526.	2.9	61
34	Alternating Donorâ [°] Acceptor Substitutions in Conjugated Polythiophenes. Macromolecules, 1996, 29, 4267-4273.	4.8	60
35	Use of poly(3-hexylthiophene)/poly(methyl methacrylate) (P3HT/PMMA) blends to improve the performance of water-gated organic field-effect transistors. Organic Electronics, 2011, 12, 1253-1257.	2.6	56
36	Growth of polyalkylthiophene films by matrix assisted pulsed laser evaporation. Organic Electronics, 2004, 5, 29-34.	2.6	54

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37	On the mode of operation in electrolyte-gated thin film transistors based on different substituted polythiophenes. Organic Electronics, 2014, 15, 2420-2427.	2.6	52
38	Diindeno [1,2-b: $2\hat{a}\in^2$, $1\hat{a}\in^2$ -n] perylene: a closed shell related Chichibabin's hydrocarbon, the synthesis, molecular packing, electronic and charge transport properties. Chemical Science, 2015, 6, 3402-3409.	7.4	49
39	Synthesis and Characterization of Poly(thiophenes) Functionalized by Photochromic Spironaphthoxazine Groups. Macromolecules, 1995, 28, 4548-4553.	4.8	48
40	Molecular Engineering of Band Level Energies in Oligothiophenes, through Cyano-Substitutions. The Journal of Physical Chemistry, 1996, 100, 8397-8401.	2.9	46
41	Grafting of buckminsterfullerene onto polythiophene: novel intramolecular donor-acceptor polymers. Optical Materials, 1998, 9, 34-42.	3.6	46
42	Photoluminescence under selective excitation of thiophene oligomers: relationship to microcrystalline structure. Synthetic Metals, 1994, 67, 223-226.	3.9	44
43	Bulk electrical properties of rubrene single crystals: Measurements and analysis. Physical Review B, 2008, 77, .	3.2	43
44	Properties of self-assembled monolayers (SAMs) from thiol-functionalized oligothiophenes. Advanced Materials, 1997, 9, 321-326.	21.0	42
45	Copolythiophene-based water-gated organic field-effect transistors for biosensing. Journal of Materials Chemistry B, 2013, 1, 2090.	5.8	41
46	The charged excitations in thin films of \hat{l}_{\pm} -sexithiophene within semi-transparent field-effect devices: investigation by optical spectroscopy of field-induced charge and by photoimpedance spectroscopy. Synthetic Metals, 1994, 67, 215-221.	3.9	40
47	Excellent Semiconductors Based on Tetracenotetracene and Pentacenopentacene: From Stable Closed-Shell to Singlet Open-Shell. Journal of the American Chemical Society, 2019, 141, 9373-9381.	13.7	40
48	IR Spectroscopy Evidence for a Substrate-Dependent Organization of Sexithiophene Thin Films Vacuum Evaporated onto SiH/Si and SiO2/Si. The Journal of Physical Chemistry, 1995, 99, 5492-5499.	2.9	37
49	Increase of conjugation length within SAMs of terthiophene-derivatives, through electrochemical intermolecular coupling. Journal of Electroanalytical Chemistry, 1998, 457, 129-139.	3.8	35
50	Facile Synthesis of Oligothiophene-Capped CdS Nanoparticles. European Journal of Inorganic Chemistry, 2007, 2007, 1275-1284.	2.0	34
51	Push-pull substituted polythiophenes: towards charge confinement in molecular quantum wells. Advanced Materials, 1995, 7, 907-910.	21.0	33
52	Transient electroluminescence of monolayer and bilayer sexithiophene diodes. Synthetic Metals, 1994, 67, 197-200.	3.9	31
53	Dispersible Conjugated Polymer Nanoparticles as Biointerface Materials for Label-Free Bacteria Detection. ACS Applied Materials & Samp; Interfaces, 2020, 12, 39979-39990.	8.0	31
54	Light-triggered molecular devices based on photochromic oligothiophene substituted chromenes. Applied Physics Letters, 2002, 80, 4297-4299.	3.3	28

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55	Low Bandgap Bistetraceneâ€Based Organic Semiconductors Exhibiting Air Stability, High Aromaticity and Mobility. Chemistry - A European Journal, 2017, 23, 5076-5080.	3.3	28
56	Synthesis and Characterization of Polythiophenes Functionalized by Buckminsterfullerene. Synthetic Metals, 1997, 84, 231-232.	3.9	27
57	Synthesis, characterization and biomedical applications of functionalized polypyrrole-coated polystyrene latex particles. Polymers for Advanced Technologies, 2003, 14, 820-825.	3.2	26
58	Stability to photo-oxidation of rubrene and fluorine-substituted rubrene. Synthetic Metals, 2012, 161, 2603-2606.	3.9	26
59	Recent trends in crystal engineering of high-mobility materials for organic electronics. Polymer Science - Series C, 2014, 56, 4-19.	1.7	26
60	Synthesis, Aromaticity, and Application of <i>peri</i> â€Pentacenopentacene: Localized Representation of Benzenoid Aromatic Compounds. Angewandte Chemie - International Edition, 2022, 61, .	13.8	26
61	Modulating the ground state, stability and charge transport in OFETs of biradicaloid hexahydro-diindenopyrene derivatives and a proposed method to estimate the biradical character. Chemical Science, 2020, 11, 12194-12205.	7.4	25
62	Synthesis, optical and magnetic properties of hybrid $\hat{l}\pm,\hat{l}\pm\hat{a}\in^2$ -oligothiophenecarboxylates/transition metal hydroxide multilayered compounds. Journal of Materials Chemistry, 2010, 20, 9401.	6.7	24
63	The Rubrenic Synthesis: The Delicate Equilibrium between Tetracene and Cyclobutene. European Journal of Organic Chemistry, 2011, 2011, 4160-4169.	2.4	24
64	Electrical conductivity of FeCl3-doped poly(alkynylsilane)s. Journal of Organometallic Chemistry, 1991, 417, C50-C52.	1.8	22
65	Molecular switch devices realised by photochromic oligothiophenes. Synthetic Metals, 2001, 124, 23-27.	3.9	22
66	Synthesis and photovoltaic properties of mono-substituted quaterthiophenes bearing strong electron-withdrawing group. Solar Energy Materials and Solar Cells, 2006, 90, 916-922.	6.2	22
67	Generalized ellipsometry and dielectric tensor of rubrene single crystals. Journal of Applied Physics, 2007, 102, .	2.5	22
68	Large-scale patterning of π-conjugated materials by meniscus guided coating methods. Advances in Colloid and Interface Science, 2020, 275, 102080.	14.7	21
69	Structural control of the optical properties of thin films of oligothiophenes. Synthetic Metals, 1994, 67, 277-280.	3.9	20
70	Amphiphilic conjugated block copolymers for efficient bulk heterojunction solar cells. Journal of Materials Chemistry, 2012, 22, 4511.	6.7	20
71	Role of mesoscopic molecular organization in organic-based thin film transistors. Supramolecular Science, 1997, 4, 155-162.	0.7	19
72	Synthesis and optical properties of novel 1,3-propanedione bearing oligothiophene substituents. Synthetic Metals, 2004, 147, 183-189.	3.9	18

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73	Complexing properties of poly[3-(aza crown ether)pyrroles] to cobalt2+ and their catalytic properties towards oxygen reduction. Journal of Electroanalytical Chemistry, 1996, 406, 187-194.	3.8	17
74	Synthesis and characterization of allâ€conjugated copolymers of 3â€hexylâ€thiophene and EDOT by grignard metathesis polymerization. Journal of Polymer Science Part A, 2012, 50, 534-541.	2.3	16
75	Aromatic copolyamides and copolyesters with vinylenarylene and terthiophene fragments in the polymer chain: synthesis and photophysical properties. Synthetic Metals, 1996, 83, 47-55.	3.9	15
76	Third-order nonlinear optical properties of oligothiophene-based thin films investigated by electroabsorption spectroscopy: Influence of conjugated chain length and electron-withdrawing substituents. Synthetic Metals, 2006, 156, 154-161.	3.9	15
77	Structural and Functional Characteristics of Chimeric Avidins Physically Adsorbed onto Functionalized Polythiophene Thin Films. ACS Applied Materials & Samp; Interfaces, 2012, 4, 4067-4077.	8.0	15
78	Synthesis and electropolymerization of terthienyl carrying a photochromic group. Journal of the Chemical Society Chemical Communications, 1995, , 471.	2.0	14
79	Synthesis of 3-derivatized pyrroles precursors polymers for functionalization with biomolecules toward biosensor devices. Materials Science and Engineering C, 2001, 15, 265-268.	7.3	14
80	A practical synthesis of functionalized alkylâ€oligothiophenes for molecular selfâ€assembly. Journal of Heterocyclic Chemistry, 2001, 38, 649-653.	2.6	14
81	Crystal Structure and Optical Properties of N-Pyrrole End-Capped Thiophene/Phenyl Co-Oligomer: Strong H-type Excitonic Coupling and Emission Self-Waveguiding. Crystal Growth and Design, 2010, 10, 2342-2349.	3.0	14
82	Influence of the molecular structure on the refractive index of semiconducting diâ€Î²â€alkylated sexithiophenes. Journal of Applied Physics, 1992, 72, 4873-4876.	2.5	13
83	Control of the mesoscopic organization of conjugated thiophene oligomers, induced by self-assembly properties. Electrochimica Acta, 1994, 39, 1339-1344.	5.2	13
84	Synthesis and electrical properties of cyano-substituted oligothiophenes towards n-type organic semiconductors. Optical Materials, 1999, 12, 379-382.	3.6	13
85	Î ² -functionalized oligothiophenes for molecular self-assembly. Synthetic Metals, 1999, 101, 5-6.	3.9	13
86	Electrcal properties of cyano-substituted oligothiophenes towards n-type organic semiconductors. Synthetic Metals, 1999, 101, 620-621.	3.9	13
87	A new method for the immobilisation of antibodies in conducting polymers. Materials Science and Engineering C, 2001, 15, 307-310.	7.3	12
88	Novel Cyclopentadithiopheneâ€Based D–A Copolymers for Organic Photovoltaic Cell Applications. Macromolecular Chemistry and Physics, 2013, 214, 2144-2156.	2.2	12
89	Novel Fluorophores based on Regioselective Intramolecular Friedel–Crafts Acylation of the Pyrene Ring Using Triflic Acid. Chemistry - A European Journal, 2017, 23, 16184-16188.	3 . 3	12
90	Synthesis and Properties of Benzoâ€Fused Indeno[2,1â€ <i>c</i>]fluorenes. Chemistry - an Asian Journal, 2019, 14, 1737-1744.	3.3	12

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91	A Simple Route to Rod oil Block Copolymers of Oligo―and Polythiophenes with PMMA and Polystyrene. Macromolecular Chemistry and Physics, 2011, 212, 1129-1136.	2.2	11
92	Non-covalent functionalization of single walled carbon nanotubes with Fe-/Co-porphyrin and Co-phthalocyanine for field-effect transistor applications. Organic Electronics, 2021, 96, 106212.	2.6	11
93	Films minces de poly(thiophènes) hautement conducteurs. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1989, 86, 85-92.	0.2	10
94	Photochromic oligothiophene substituted chromenes a new approach towards a molecular switch: electrical characterisation. EPJ Applied Physics, 2002, 18, 3-8.	0.7	9
95	Morphology, interfacial electronic structure, and optical properties of oligothiophenes grown onZnSe(100)by molecular beam deposition. Physical Review B, 2006, 73, .	3.2	9
96	Transparent and air stable organic field effect transistors with ordered layers of dibenzo[d,d]thieno[3,2-b;4,5-b′]dithiophene obtained from solution. Optical Materials, 2012, 34, 1660-1663.	3.6	9
97	Wet-Chemical Noncovalent Functionalization of CVD Graphene: Molecular Doping and Its Effect on Electrolyte-Gated Graphene Field-Effect Transistor Characteristics. Journal of Physical Chemistry C, 2022, 126, 4522-4533.	3.1	9
98	Push-pull substituted polythiophene. Synthetic Metals, 1996, 76, 269-272.	3.9	8
99	The electrochemistry of antibody-modified conducting polymer electrodes. Synthetic Metals, 2001, 121, 1261-1262.	3.9	8
100	Fine-tuning the optical properties of aluminium and lithium quinolates through oligothiophene substituents in 2-position. Synthetic Metals, 2004, 147, 175-182.	3.9	8
101	New poly(p-substituted-N-phenylpyrrole)s. Electrosynthesis, electrochemical properties and characterization. Synthetic Metals, 2013, 179, 74-85.	3.9	8
102	Orientation et structure de films de sexithiophÃ"ne (6T) déposés sur couches de PTFE orientées par friction. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1995, 92, 963-966.	0.2	8
103	A Study of the Charged Excitations in Thin Films of α-Sexithiophene by Voltage-Modulation Spectroscopy and Photoimpedance Measurements. Molecular Crystals and Liquid Crystals, 1994, 252, 165-174.	0.3	7
104	Optical Properties of Dibenzo[d,dâ \in 2]thieno[3,2-b;4,5-bâ \in 2]dithiophene Monocrystals: The Effect of Intermolecular Interactions. Journal of Physical Chemistry A, 2011, 115, 225-231.	2.5	7
105	Synthesis, Aromaticity, and Application of <i>peri</i> ê€Pentacenopentacene: Localized Representation of Benzenoid Aromatic Compounds. Angewandte Chemie, 2022, 134, .	2.0	7
106	Molecular photo switch based on photochromic oligothiophenes. Synthetic Metals, 2001, 121, 1463-1464.	3.9	6
107	Direct growth of polymer brushes from an electrodeposited conducting poly(dithienylpyrrole) layer functionalized with ATRP initiating moieties. Journal of Electroanalytical Chemistry, 2013, 708, 20-30.	3.8	6
108	Molecular Engineering of Organic Semiconductors. , 1993, , 107-116.		6

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109	Biotin-Bioconjugated Water-Soluble CdS Nanoparticles. Sensor Letters, 2008, 6, 511-517.	0.4	6
110	Design and electrosynthesis of push-pull substituted polythiophenes. Synthetic Metals, 1996, 78, 143-147.	3.9	5
111	Aromatic copolyamides and copolyesters with vinylenarylene and terthiophene fragments in the polymer chain: synthesis and photophysical properties. Synthetic Metals, 1997, 84, 247-248.	3.9	5
112	Self-assembled monolayers based on î±-functionalized quaterthiophene. Synthetic Metals, 1999, 102, 1319.	3.9	5
113	A new electropolymerisable 3-(ï‰-aminopropyl) pyrrole for the immobilization of biomolecules. Synthetic Metals, 2001, 119, 131-132.	3.9	5
114	Structure Effects on Transport of Charge Carriers in Conjugated Oligomers. Molecular Crystals and Liquid Crystals, 1993, 228, 81-86.	0.3	4
115	On the crucial role of the insulator-semiconductor interface in organic thin-film transistors. , 2006,		4
116	An experimental study of the electronic absorption and fluorescence spectral properties of new p-substituted-N-phenylpyrroles and their electrosynthesized polymers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 1107-1114.	3.9	4
117	Préparation et activité électrocatalytique d'électrodes de poly(thiophène) modifiées par électrodéposition de particules métalliques. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1989, 86, 241-247.	0.2	4
118	Electrochemical behavior of self-assembled monolayers based on functionalized oligothiophenes. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1998, 95, 1339-1342.	0.2	4
119	A "proton-pump―electrode based on poly(3-carboxymethylpyrrole). Advanced Materials, 1994, 6, 755-758.	21.0	3
120	A new polymer based on a conjugated terthiophene- \hat{l}^2 -diketone ligand: electrochemical study and structural aspects. Electrochimica Acta, 2005, 50, 1475-1480.	5.2	3
121	Étude de l'orientation et de la structure de films de sexithiophène (6T) déposés sur les surfaces de SiO ₂ et de SiH/Si. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1995, 92, 967-970.	0.2	3
122	Organic thin films based on a dicyanovinyl-quaterthiophene: Influence of electrode configuration on third-order nonlinear optical properties measured by electroabsorption spectroscopy. Applied Surface Science, 2006, 253, 1517-1521.	6.1	2
123	Synthesis and characterization of nanoheterostructures based on oligothiophene functionalized Ru nanoparticles. Journal of Colloid and Interface Science, 2006, 296, 95-101.	9.4	2
124	pH-controlled assembled and disassembly oligothiophene linked Ru nanoparticles. Materials Letters, 2006, 60, 698-702.	2.6	2
125	Synthesis and Electropolymerization of New Phenylene-Substituted Dipyrridyls: Electrochemical and Spectroscopic Characterization. Asian Journal of Chemistry, 2014, 26, 5973-5980.	0.3	2
126	Raw and processed data used in non-covalent functionalization of single walled carbon nanotubes with Co-porphyrin and Co-phthalocyanine and its effect on field-effect transistor characteristics. Data in Brief, 2021, 38, 107366.	1.0	2

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127	Tuning light emission colour of AlQ3 through oligothiophene substituents., 2006,,.		1
128	A novel isomer of pyrrolo[3,4-c]pyrrole-1,4 (2H,5H)-dione as a new building block for polymer solar cells. Synthetic Metals, 2014, 196, 38-47.	3.9	1
129	Synthesis, crystal structure, tropicity and charge transport properties of diindenothienothiophene derivatives. Journal of Materials Chemistry C, 0, , .	5 . 5	1
130	Functional \hat{l} -conjugated polymers based on maleimide for photovoltaic applications. Organic Photonics and Photovoltaics, 2013, 1, .	1.3	0
131	Photoluminescence des hexamà res de thiophà ne. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1995, 92, 907-910.	0.2	O
132	Influence de substituants sur les propriétés électrochimiques des poly(bithiophÓnes) disubstitués en 3,3'. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1995, 92, 835-838.	0.2	0