Dmitrii F Perepichka

List of Publications by Year
in descending order

205 papers	12,383 citations	30070 54 h-index	28297 105 g-index
239 all docs	239 docs citations	239 times ranked	13425 citing authors

#	Article	IF	Citations
1	Tetrathiafulvalenes, Oligoacenenes, and Their Buckminsterfullerene Derivatives:Â The Brick and Mortar of Organic Electronics. Chemical Reviews, 2004, 104, 4891-4946.	47.7	1,606
2	Light-Emitting Polythiophenes. Advanced Materials, 2005, 17, 2281-2305.	21.0	858
3	Synthesis of Polyphenylene Molecular Wires by Surfaceâ€Confined Polymerization. Small, 2009, 5, 592-597.	10.0	314
4	Extending Polymer Conjugation into the Second Dimension. Science, 2009, 323, 216-217.	12.6	296
5	Conjugated Covalent Organic Frameworks via Michael Additionâ€“Elimination. Journal of the American Chemical Society, 2017, 139, 2421-2427.	13.7	286
6	Supramolecular Assemblies on Surfaces: Nanopatterning, Functionality, and Reactivity. ACS Nano, 2018, 12, 7445-7481.	14.6	225
7	Ï€-Electron Conjugation in Two Dimensions. Journal of the American Chemical Society, 2013, 135, 16585-16594.	13.7	214
8	Solid-State Synthesis of a Conducting Polythiophene via an Unprecedented Heterocyclic Coupling Reaction. Journal of the American Chemical Society, 2003, 125, 15151-15162.	13.7	196
9	Towards â€œgreenâ€•electronic materials. Î±-Oligofurans as semiconductors. Chemical Communications, 2011, 47, 1976-1978.	4.1	196
10	Insight into Organometallic Intermediate and Its Evolution to Covalent Bonding in Surface-Confined Ullmann Polymerization. ACS Nano, 2013, 7, 8190-8198.	14.6	190
11	Near-IR Photoresponse in New Up-Converting CdSe/NaYF₄:Yb,Er Nanoheterostructures. Journal of the American Chemical Society, 2010, 132, 8868-8869.	13.7	183
12	Improving Biocompatibility of Implantable Metals by Nanoscale Modification of Surfaces: An Overview of Strategies, Fabrication Methods, and Challenges. Small, 2009, 5, 996-1006.	10.0	182
13	Molecules with Exceptionally Small HOMO-LUMO Gaps. Angewandte Chemie - International Edition, 2005, 44, 5370-5373.	13.8	175
14	Rational Modulation of the Periodicity in Linear Hydrogen-Bonded Assemblies of Trimesic Acid on Surfaces. Journal of the American Chemical Society, 2006, 128, 4212-4213.	13.7	169
15	Mastering fundamentals of supramolecular design with carboxylic acids. Common lessons from X-ray crystallography and scanning tunneling microscopy. Chemical Society Reviews, 2011, 40, 191-206.	38.1	164
16	Synthesis of mesoscale ordered two-dimensional Ï€-conjugated polymers with semiconducting properties. Nature Materials, 2020, 19, 874-880.	27.5	158
17	Facile Solid-State Synthesis of Highly Conducting Poly(ethylenedioxythiophene). Angewandte Chemie - International Edition, 2003, 42, 658-661.	13.8	147
18	Two-Dimensional Structural Motif in Thienoacene Semiconductors: Synthesis, Structure, and Properties of Tetrathienoanthracene Isomers. Chemistry of Materials, 2008, 20, 2484-2494.	6.7	144

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19	Crystal Engineering of Dual Channel p/n Organic Semiconductors by Complementary Hydrogenâ€…Bonding. Angewandte Chemie - International Edition, 2014, 53, 2138-2142.	13.8	140
20	2D Poly(arylene vinylene) Covalent Organic Frameworks via Aldol Condensation of Trimethyltriazine. Angewandte Chemie - International Edition, 2019, 58, 13753-13757.	13.8	137
21	Maximizing Fieldâ€Effect Mobility and Solidâ€State Luminescence in Organic Semiconductors. Angewandte Chemie - International Edition, 2012, 51, 3837-3841.	13.8	135
22	Supramolecular Ordering in Oligothiopheneâ˜Fullerene Monolayers. Journal of the American Chemical Society, 2009, 131, 16844-16850.	13.7	134
23	Nanoscale Oxidative Patterning of Metallic Surfaces to Modulate Cell Activity and Fate. Nano Letters, 2009, 9, 659-665.	9.1	134
24	Synthesis and Characterization of Conjugated Mono- and Dithiol Oligomers and Characterization of Their Self-Assembled Monolayers. Langmuir, 2003, 19, 4272-4284.	3.5	132
25	Crystal Engineering in Two Dimensions:â€‰ An Approach to Molecular Nanopatterning. Journal of Physical Chemistry C, 2007, 111, 16996-17007.	3.1	132
26	Flexible Asymmetric Supercapacitors via Spray Coating of a New Electrochromic Donorâ€“Acceptor Polymer. Advanced Energy Materials, 2017, 7, 1601623.	19.5	131
27	Synthesis and electronic structure of a two dimensional Ï€-conjugated polythiophene. Chemical Science, 2013, 4, 3263.	7.4	130
28	Crystal Engineering of Room Temperature Phosphorescence in Organic Solids. Angewandte Chemie - International Edition, 2020, 59, 9977-9981.	13.8	129
29	Heterocirculenes as a new class of organic semiconductors. Chemical Communications, 2008, , 5354.	4.1	126
30	Halogen bonds in 2D supramolecular self-assembly of organic semiconductors. Nanoscale, 2012, 4, 5965.	5.6	120
31	Step-by-step growth of epitaxially aligned polythiophene by surface-confined reaction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11200-11204.	7.1	117
32	New azaborine-thiophene heteroacenes. Chemical Communications, 2010, 46, 7007.	4.1	110
33	The First Studies of a Tetrathiafulvalene-Ïƒ-Acceptor Molecular Rectifier. Chemistry - A European Journal, 2005, 11, 2914-2922.	3.3	106
34	Ullmann-type coupling of brominated tetrathienoanthracene on copper and silver. Nanoscale, 2014, 6, 2660-2668.	5.6	106
35	A Covalent Tetrathiafulvaleneâ€“Tetracyanoquinodimethane Diad: Extremely Low HOMOâ€“LUMO Gap, Thermoexcited Electron Transfer, and High-Quality Langmuirâ€“Blodgett Films. Angewandte Chemie - International Edition, 2003, 42, 4636-4639.	13.8	104
36	Multiple NaNbO₃/Nb₂O₅ Heterostructure Nanotubes: A New Class of Ferroelectric/Semiconductor Nanomaterials. Advanced Materials, 2010, 22, 1741-1745.	21.0	104

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37	Transformation between 2D and 3D Covalent Organic Frameworks via Reversible [2 + 2] Cycloaddition. Journal of the American Chemical Society, 2020, 142, 8862-8870.	13.7	101
38	Supramolecular assembly of heterocirculenes in 2D and 3D. Chemical Communications, 2009, , 1192.	4.1	100
39	Halogen bonds as stabilizing interactions in a chiral self-assembled molecular monolayer. Chemical Communications, 2011, 47, 9453.	4.1	91
40	Lanthanide Ion Doped Upconverting Nanoparticles: Synthesis, Structure and Properties. Small, 2016, 12, 3888-3907.	10.0	91
41	Quasi one-dimensional band dispersion and surface metallization in long-range ordered polymeric wires. Nature Communications, 2016, 7, 10235.	12.8	91
42	Stabilization of exotic minority phases in a multicomponent self-assembled molecular network. Nanotechnology, 2007, 18, 424031.	2.6	90
43	Silicon Nanotubes. Small, 2006, 2, 22-25.	10.0	89
44	Synthesis, Polymerization, and Unusual Properties of New Star-Shaped Thiophene Oligomers. Organic Letters, 2009, 11, 3230-3233.	4.6	85
45	Crystal Engineering of Room Temperature Phosphorescence in Organic Solids. Angewandte Chemie, 2020, 132, 10063-10067.	2.0	82
46	Mechanistic Picture and Kinetic Analysis of Surface-Confined Ullmann Polymerization. Journal of the American Chemical Society, 2016, 138, 16696-16702.	13.7	81
47	Oligofuran-containing molecules for organic electronics. Journal of Materials Chemistry C, 2013, 1, 4358.	5.5	77
48	Surface-confined single-layer covalent organic frameworks: design, synthesis and application. Chemical Society Reviews, 2020, 49, 2020-2038.	38.1	73
49	A One-Step Synthesis of a Poly(iptycene) through an Unusual Dielsâ^'Alder Cyclization/Dechlorination of Tetrachloropentacene. Journal of the American Chemical Society, 2003, 125, 10190-10191.	13.7	72
50	Quasi Temperature Independent Electron Mobility in Hexagonal Columnar Mesophases of an H-Bonded Benzotristhiophene Derivative. Chemistry of Materials, 2010, 22, 1420-1428.	6.7	72
51	A Two-Dimensional Poly(azatriangulene) Covalent Organic Framework with Semiconducting and Paramagnetic States. Journal of the American Chemical Society, 2020, 142, 2155-2160.	13.7	72
52	Photochemistry of the Ï€â€Extended 9,10â€Bis(1,3â€dithiolâ€2â€ylidene)â€•9,10â€dihydroanthracene System: Generation and Characterisation of the Radical Cation, Dication, and Derived Products. Chemistry - A European Journal, 2001, 7, 973-978.	3.3	67
53	A (Ï€-Extended Tetrathiafulvalene)â^'Fluorene Conjugate. Unusual Electrochemistry and Charge Transfer Properties:Â The First Observation of a Covalent D2+â^'Ïƒâ^'Aâ€¢-Redox State1. Journal of the American Chemical Society, 2002, 124, 14227-14238.	13.7	60
54	Advances and Challenges in the Synthesis of Poly(pâ€phenylene vinylene)â€Based Polymers. Israel Journal of Chemistry, 2014, 54, 674-688.	2.3	59

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55	Substrate, Molecular Structure, and Solvent Effects in 2D Self-Assembly via Hydrogen and Halogen Bonding. Journal of Physical Chemistry C, 2014, 118, 25505-25516.	3.1	59
56	Unprecedented Transformation of Tetrathienoanthracene into Pentacene on Ni(111). ACS Nano, 2013, 7, 1652-1657.	14.6	54
57	The role of halogens in on-surface Ullmann polymerization. Faraday Discussions, 2017, 204, 453-469.	3.2	54
58	A Pureâ€Red Doublet Emission with 90â€‰% Quantum Yield: Stable, Colorless, Iodinated Triphenylmethane Solid. Angewandte Chemie - International Edition, 2020, 59, 23030-23034.	13.8	54
59	Electron Acceptors of the Fluorene Series. 9.1Derivatives of 9-(1,2-Dithiol-3-ylidene)-, 9-(1,3-Dithiol-2-ylidene)-, and 9-(1,3-Selenathiol-2-ylidene)fluorenes:Â Synthesis, Intramolecular Charge Transfer, and Redox Properties. Journal of Organic Chemistry, 1999, 64, 6937-6950.	3.2	52
60	Electron Acceptors of the Fluorene Series. 7.12,7-Dicyano-4,5-dinitro-9-X-fluorenes:Â Synthesis, Cyclic Voltammetry, Charge Transfer Complexation withN-Propylcarbazole in Solution, and X-ray Crystal Structures of Two Tetrathiafulvalene Complexes. Journal of Organic Chemistry, 1998, 63, 6484-6493.	3.2	51
61	Environmentally stable light emitting field effect transistors based on 2-(4-pentylstyryl)tetracene. Journal of Materials Chemistry, 2008, 18, 158-161.	6.7	49
62	1,5-, 2,6- and 9,10-distyrylanthracenes as luminescent organic semiconductors. Journal of Materials Chemistry C, 2013, 1, 2817.	5.5	48
63	Solution and air stable host/guest architectures from a single layer covalent organic framework. Chemical Communications, 2015, 51, 16510-16513.	4.1	48
64	Strong Enhancement of Ï€â€Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. Angewandte Chemie - International Edition, 2019, 58, 17312-17321.	13.8	48
65	Rectifying Diodes from Asymmetrically Functionalized Single-Wall Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 3134-3135.	13.7	47
66	Mechanism of the Photodegradation of Aâ€Dâ€A Acceptors for Organic Photovoltaics**. Angewandte Chemie - International Edition, 2021, 60, 24833-24837.	13.8	47
67	Engineering a Remarkably Low HOMOâ€“LUMO Gap by Covalent Linkage of a Strong -Donor and a -Acceptorâ€”Tetrathiafulvalene--Polynitrofluorene Diads: Their Amphoteric Redox Behavior, Electron Transfer and Spectroscopic Properties. Chemistry - A European Journal, 2002, 8, 4656-4669.	3.3	46
68	Surface confined pseudorotaxanes with electrochemically controllable complexation propertiesElectronic supplementary information (ESI) available: further experimental and theoretical data. See http://www.rsc.org/suppdata/jm/b3/b306274k/. Journal of Materials Chemistry, 2003, 13, 2111.	6.7	46
69	Metal Nanoparticles: From â€œArtificial Atomsâ€•to â€œArtificial Moleculesâ€• Angewandte Chemie - International Edition, 2007, 46, 6006-6008.	13.8	45
70	Trialkyltetrathiafulvaleneâˆ’Ïƒâˆ’Tetracyanoanthraquinodimethane (R3TTFâˆ’Ïƒâˆ’TCNAQ) Diads:Â Synthesis, Intramolecular Charge-Transfer Properties, and X-ray Crystal Structure. Journal of Organic Chemistry, 2001, 66, 4517-4524.	3.2	44
71	Unravelling the Self-Assembly of Hydrogen Bonded NDI Semiconductors in 2D and 3D. Chemistry of Materials, 2016, 28, 951-961.	6.7	41
72	H-Bonding Control of Supramolecular Ordering of Diketopyrrolopyrroles. Chemistry of Materials, 2017, 29, 2979-2987.	6.7	41

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73	Quantifying Planarity in the Design of Organic Electronic Materials. Angewandte Chemie - International Edition, 2021, 60, 1364-1373.	13.8	41
74	The First Tetrathiafulvaleneâ˜†Ïƒâ˜†Polynitrofluorene Diads: Low HOMOâ˜†LUMO Gap, Amphoteric Redox Behavior, and Charge Transfer Properties. Organic Letters, 2001, 3, 1431-1434.	4.6	38
75	Molecular Assembly of Rubrene on a Metal/Metal Oxide Nanotemplate. Journal of Physical Chemistry A, 2007, 111, 12674-12678.	2.5	38
76	Electrically conductive covalent organic frameworks: bridging the fields of organic metals and 2D materials. Journal of Materials Chemistry C, 2021, 9, 10668-10676.	5.5	38
77	Tuning the Electronic Properties of Poly(thienothiophene vinylene)s via Alkylsulfanyl and Alkylsulfonyl Substituents. Macromolecules, 2013, 46, 9231-9239.	4.8	37
78	Two-Dimensional Self-Assembly of a Symmetry-Reduced Tricarboxylic Acid. Langmuir, 2013, 29, 7318-7324.	3.5	37
79	A Molecular Necklace: Threading Î²-Cyclodextrins onto Polymers Derived from Bile Acids. Angewandte Chemie - International Edition, 2016, 55, 11979-11983.	13.8	37
80	Synthesis of Conjugated Tetrathiafulvalene (TTF)-Ï€-Acceptor Molecules â˜† Intramolecular Charge Transfer and Nonlinear Optical Properties. European Journal of Organic Chemistry, 2001, 2001, 1927-1935.	2.4	35
81	The dissolution of carbon nanotubes in aniline, revisitedElectronic Supplementary Information (ESI) available: additional TEM pictures of aniline treated MWNTs and SEM of the PTFE membranes used in the work. See http://www.rsc.org/suppdata/jm/b4/b403509g/. Journal of Materials Chemistry, 2004, 14, 2749.	6.7	35
82	Towards crystal engineering of solid-state polymerization in dibromothiophenes. Journal of Materials Chemistry, 2009, 19, 5167.	6.7	35
83	A 2D Substitutional Solid Solution through Hydrogen Bonding of Molecular Building Blocks. ACS Nano, 2017, 11, 8901-8909.	14.6	35
84	Recent advances in room temperature phosphorescence of crystalline boron containing organic compounds. Aggregate, 2022, 3, e123.	9.9	35
85	Influence of heteroatoms on the charge mobility of anthracene derivatives. Journal of Materials Chemistry C, 2016, 4, 3517-3522.	5.5	34
86	Trifluoromethyl Group-Modified Non-Fullerene Acceptor toward Improved Power Conversion Efficiency over 13% in Polymer Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 11543-11550.	8.0	34
87	The Interplay of Inverted Redox Potentials and Aromaticity in the Oxidized States of New Ï€-Electron Donors: 9-(1,3-Dithiol-2-ylidene)fluorene and 9-(1,3-Dithiol-2-ylidene)thioxanthene Derivatives. Chemistry - A European Journal, 2006, 12, 3389-3400.	3.3	33
88	Directing the Assembly of Gold Nanoparticles with Two-Dimensional Molecular Networks. ACS Nano, 2014, 8, 2214-2222.	14.6	32
89	Self-assembly of Rubrene on Copper Surfaces. Journal of Physical Chemistry C, 2008, 112, 10214-10221.	3.1	31
90	Self-assembled monolayer of alkanephosphoric acid on nanotextured Ti. Journal of Chemical Physics, 2008, 128, 144705.	3.0	29

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91	An unexpected organometallic intermediate in surface-confined Ullmann coupling. Nanoscale, 2019, 11, 7682-7689.	5.6	29
92	Surface-mediated assembly, polymerization and degradation of thiophene-based monomers. Chemical Science, 2019, 10, 5167-5175.	7.4	28
93	Combining High Electron Affinity and Intramolecular Charge Transfer in 1,3â€Dithioleâ€“Nitrofluorene Pushâ€“Pull Diads. Chemistry - A European Journal, 2008, 14, 2757-2770.	3.3	27
94	New stable donorâ€“acceptor dyads for molecular electronics. Journal of Materials Chemistry, 2011, 21, 1470-1478.	6.7	27
95	Donorâ€“Acceptor Intermediates and Low-Bandgap Polymers by Electropolymerization of Thienoazaborines. Macromolecules, 2011, 44, 4729-4734.	4.8	26
96	Pentacene on Ni(111): room-temperature molecular packing and temperature-activated conversion to graphene. Nanoscale, 2015, 7, 3263-3269.	5.6	25
97	Patchy Nanofibers from the Thin Film Selfâ€Assembly of a Conjugated Diblock Copolymer. Angewandte Chemie - International Edition, 2017, 56, 6152-6156.	13.8	25
98	Self-assembly of rubrene on Cu(111). Nanotechnology, 2008, 19, 424021.	2.6	24
99	2D Self-Assembly of Fused Oligothiophenes: Molecular Control of Morphology. ACS Nano, 2012, 6, 7973-7980.	14.6	24
100	2D Poly(arylene vinylene) Covalent Organic Frameworks via Aldol Condensation of Trimethyltriazine. Angewandte Chemie, 2019, 131, 13891-13895.	2.0	24
101	Electron acceptors of the fluorene series. Journal of Organometallic Chemistry, 2001, 637-639, 445-462.	1.8	23
102	Supramolecular ordering of difuryldiketopyrrolopyrrole: the effect of alkyl chains and inter-ring twisting. CrystEngComm, 2016, 18, 4285-4289.	2.6	23
103	Boosting Efficiency and Curtailing the Efficiency Roll-Off in Green Perovskite Light-Emitting Diodes via Incorporating Ytterbium as Cathode Interface Layer. ACS Applied Materials & Interfaces, 2020, 12, 18761-18768.	8.0	23
104	Synthesis, X-ray Structure, and Properties of a Tetrabenzannelated 1,2,4,5-Cyclophane. Angewandte Chemie - International Edition, 2002, 41, 3688-3691.	13.8	22
105	Highly Emissive and Electrochemically Stable Thienylene Vinylene Oligomers and Copolymers: An Unusual Effect of Alkylsulfanyl Substituents. Advanced Functional Materials, 2010, 20, 1661-1669.	14.9	22
106	A new approach to polycyclic azaarenes: visible-light photolysis of vinyl azides in the synthesis of diazabenzopyrene and diazaperylene. Journal of Materials Chemistry C, 2016, 4, 7269-7276.	5.5	22
107	A macrocyclic oligofuran: synthesis, solid state structure and electronic properties. Chemical Science, 2019, 10, 8527-8532.	7.4	22
108	Complementary Hydrogen Bonding Modulates Electronic Properties and Controls Selfâ€Assembly of Donor/Acceptor Semiconductors. Chemistry - A European Journal, 2016, 22, 17251-17261.	3.3	21

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109	A new simple synthesis of poly(thiophene-methine)s. Chemical Communications, 2005, , 4187.	4.1	20
110	Acenaphthylene as a building block for Ï€-electron functional materials. Journal of Materials Chemistry C, 2021, 9, 12448-12461.	5.5	20
111	Fluorene acceptors with intramolecular charge-transfer from 1,3-dithiole donor moieties: novel electron transport materials. Chemical Communications, 1998, , 819-820.	4.1	19
112	Reply to â€œComment on â€˜Insight into Organometallic Intermediate and Its Evolution to Covalent Bonding in Surface-Confined Ullmann Polymerizationâ€™â€: ACS Nano, 2014, 8, 1969-1971.	14.6	19
113	Pentacenobis(thiadiazole)dione, an n-Type Semiconductor for Field-Effect Transistors. Journal of Organic Chemistry, 2014, 79, 5858-5860.	3.2	19
114	Ï€â€Extended Indenofluorenes. Chemistry - A European Journal, 2015, 21, 6193-6201.	3.3	18
115	Synthesis and Divergent Electronic Properties of Two Ring-Fused Derivatives of 9,10-Diphenylanthracene. Organic Letters, 2015, 17, 4224-4227.	4.6	18
116	Synthesis of Macrocyclic Poly(3-hexylthiophene) and Poly(3-heptylselenophene) by Alkyne Homocoupling. ACS Macro Letters, 2016, 5, 1075-1079.	4.8	18
117	A smart polymer with a high sensitivity to temperature and humidity based on polyacrylamide hydrogel doped with polyiodide. Journal of Materials Chemistry C, 2016, 4, 11055-11058.	5.5	18
118	Alkyl chain length effects on double-deck assembly at a liquid/solid interface. Nanoscale, 2018, 10, 14993-15002.	5.6	18
119	PushÃ»pull dithiole Ã» fluorene acceptors as electron transport materials for holography. Synthetic Metals, 2001, 121, 1487-1488.	3.9	17
120	Facile Solid-State Synthesis of Highly Conducting Poly(ethylenedioxythiophene). Angewandte Chemie, 2003, 115, 682-685.	2.0	17
121	Supramolecular control of organic p/n-heterojunctions by complementary hydrogen bonding. Faraday Discussions, 2014, 174, 297-312.	3.2	17
122	Covalent organic frameworks from a monomer with reduced symmetry: polymorphism and SierpiÅ„ski triangles. Chemical Communications, 2019, 55, 13586-13589.	4.1	17
123	Synthesis of Boroxine and Dioxaborole Covalent Organic Frameworks via Transesterification and Metathesis of Pinacol Boronates. Journal of the American Chemical Society, 2021, 143, 13274-13280.	13.7	17
124	Ï€-Extended nitrofluorene-1,3-dithiole chromophore: enhancing the photoresponse of holographic materials through the balance of intramolecular charge transfer and electron affinity. Journal of Materials Chemistry, 2001, 11, 1772-1774.	6.7	16
125	Protecting the triplet excited state in sterically congested platinum porphyrin. Dalton Transactions, 2014, 43, 2676-2683.	3.3	16
126	Push-pull fluorene acceptors with ferrocene donor moiety. Synthetic Metals, 1999, 102, 1558-1559.	3.9	15

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127	Synthesis, Characterization and Properties of Regioregular Polythiophene-Based Materials. , 0, , 157-217.		15
128	Polymorphism in New Thienothiopheneâ€“Thiazolothiazole Organic Semiconductors. ChemPhysChem, 2015, 16, 1173-1178.	2.1	15
129	A Wide Band Gap Naphthalene Semiconductor for Thinâ€Film Transistors. Advanced Electronic Materials, 2017, 3, 1600556.	5.1	15
130	Understanding the Photovoltaic Behavior of Aâ€“Dâ€“A Molecular Semiconductors through a Permutation of End Groups. Journal of Organic Chemistry, 2020, 85, 52-61.	3.2	15
131	Controlling Structural and Energetic Disorder in High-Mobility Polymer Semiconductors via Doping with Nitroaromatics. Chemistry of Materials, 2021, 33, 2937-2947.	6.7	15
132	Tip-induced Câ€“H activation and oligomerization of thienoanthracenes. Chemical Communications, 2014, 50, 8791-8793.	4.1	14
133	Aromatization of Benzannulated Perylene-3,9-diones: Unexpected Photophysical Properties and Reactivity. Organic Letters, 2016, 18, 3574-3577.	4.6	14
134	Band gap engineering of donorâ€“acceptor co-crystals by complementary two-point hydrogen bonding. Materials Chemistry Frontiers, 2020, 4, 3669-3677.	5.9	14
135	Nitroaromatics as n-type organic semiconductors for field effect transistors. Chemical Communications, 2020, 56, 6432-6435.	4.1	14
136	Room Temperature Phosphorescence vs Tripletâ€“Triplet Annihilation in N-Substituted Acridone Solids. Journal of Physical Chemistry Letters, 2021, 12, 6431-6438.	4.6	14
137	Areneâ€“perfluoroarene interactions in crystal engineering. 5.. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 1306-1307.	0.4	13
138	Synthesis, X-ray Structure, and Properties of a Tetrabenzannelated 1,2,4,5-Cyclophane. Angewandte Chemie, 2002, 114, 3840-3843.	2.0	13
139	Dithienonaphthothiadiazole semiconductors: synthesis, properties, and application to ambipolar field effect transistors. Journal of Materials Chemistry C, 2014, 2, 3972.	5.5	13
140	Polysiloxaneâ€“poly(vinyl alcohol) composite dielectrics for high-efficiency low voltage organic thin film transistors. Journal of Materials Chemistry C, 2019, 7, 4879-4886.	5.5	13
141	Hydrogen Bonding Versus Ï€-Stacking in Charge-Transfer Co-crystals. Crystal Growth and Design, 2021, 21, 2609-2613.	3.0	13
142	High thermal stability of block copolymer-capped Au and Cu nanoparticles. Chemical Communications, 2014, 50, 11919-11921.	4.1	12
143	Tailoring the Reaction Path in the On-Surface Chemistry of Thienoacenes. Journal of Physical Chemistry C, 2015, 119, 22432-22438.	3.1	12
144	Fluorination of a polymer donor through the trifluoromethyl group for high-performance polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 12149-12155.	10.3	12

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145	Hydrogen bonding vs. moleculeâ€“surface interactions in 2D self-assembly of [C60]fullerenecarboxylic acids. Nanoscale, 2016, 8, 16955-16962.	5.6	11
146	Strong Enhancement of Ï€â€Electron Donor/Acceptor Ability by Complementary DD/AA Hydrogen Bonding. Angewandte Chemie, 2019, 131, 17473-17482.	2.0	11
147	Stereospecific Epitaxial Growth of Bilayered Porous Molecular Networks. Journal of the American Chemical Society, 2020, 142, 8662-8671.	13.7	11
148	Adatoms in the Surface-Confined Ullmann Coupling of Phenyl Groups. Journal of Physical Chemistry Letters, 2021, 12, 11061-11069.	4.6	11
149	Fused Oligothiophenes. , 0, , 219-254.		10
150	A Molecular Necklace: Threading Î²-Cyclodextrins onto Polymers Derived from Bile Acids. Angewandte Chemie, 2016, 128, 12158-12162.	2.0	10
151	Supramolecular architecture of two charge-transfer complexes based on 2,7-(X,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td Reports, 2002, 47, 251-261.	0.6	9
152	Non-classical heteroacenes: synthesis and properties of anthra[2,3-c:6,7-câ€²]dithiophene derivatives. Chemical Communications, 2011, 47, 12619.	4.1	9
153	Perfluoroalkyl-substitution versus electron-deficient building blocks in design of oligothiophene semiconductors. Journal of Materials Chemistry C, 2013, 1, 260-267.	5.5	9
154	Temperature-induced molecular reorganization on Au(111) driven by oligomeric defects. Nanoscale, 2019, 11, 19468-19476.	5.6	9
155	Identification of Topotactic Surfaceâ€Confined Ullmannâ€Polymerization. Small, 2021, 17, e2103044.	10.0	9
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