Mohammed Al-Hashimi

List of Publications by Year
in descending order

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85 papers	2,866 citations	218677 26 h-index	182427 51 g-index
88 all docs	88 docs citations	88 times ranked	4702 citing authors

#	Article	IF	Citations
1	High-k Gate Dielectrics for Emerging Flexible and Stretchable Electronics. Chemical Reviews, 2018, 118, 5690-5754.	47.7	530
2	Polymer-Fullerene Miscibility: A Metric for Screening New Materials for High-Performance Organic Solar Cells. Journal of the American Chemical Society, 2012, 134, 15869-15879.	13.7	196
3	Fully conjugated ladder polymers. Chemical Science, 2017, 8, 2503-2521.	7.4	184
4	Activated Singlet Exciton Fission in a Semiconducting Polymer. Journal of the American Chemical Society, 2013, 135, 12747-12754.	13.7	143
5	Influence of the heteroatom on the optoelectronic properties and transistor performance of soluble thiophene-, selenophene- and telluropheneâ€“vinylene copolymers. Chemical Science, 2016, 7, 1093-1099.	7.4	84
6	Effects of a Heavy Atom on Molecular Order and Morphology in Conjugated Polymer:Fullerene Photovoltaic Blend Thin Films and Devices. ACS Nano, 2012, 6, 9646-9656.	14.6	70
7	Thermodynamic synthesis of solution processable ladder polymers. Chemical Science, 2016, 7, 881-889.	7.4	70
8	Facile infiltration of semiconducting polymer into mesoporous electrodes for hybrid solar cells. Energy and Environmental Science, 2011, 4, 3051.	30.8	68
9	Influence of Ion Induced Local Coulomb Field and Polarity on Charge Generation and Efficiency in Poly(3â€Hexylthiophene)â€Based Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2011, 21, 2571-2579.	14.9	68
10	An in Situ Sulfidation Approach for the Integration of MoS₂ Nanosheets on Carbon Fiber Paper and the Modulation of Its Electrocatalytic Activity by Interfacing with nC₆₀. ACS Catalysis, 2016, 6, 6246-6254.	11.2	60
11	Ring opening metathesis polymerization (ROMP) of fiveâ€to eightâ€membered cyclic olefins: Computational, thermodynamic, and experimental approach. Journal of Polymer Science Part A, 2017, 55, 3137-3145.	2.3	54
12	Doping of Large Ionization Potential Indenopyrazine Polymers via Lewis Acid Complexation with Tris(pentafluorophenyl)borane: A Simple Method for Improving the Performance of Organic Thin-Film Transistors. Chemistry of Materials, 2016, 28, 8016-8024.	6.7	53
13	Indolo-naphthyridine-6,13-dione Thiophene Building Block for Conjugated Polymer Electronics: Molecular Origin of Ultrahigh n-Type Mobility. Chemistry of Materials, 2016, 28, 8366-8378.	6.7	52
14	Synthesis, Characterization, and Field Effect Transistor Properties of Regioregular Poly(3-alkyl-2,5-selenylenevinylene). Macromolecules, 2011, 44, 5194-5199.	4.8	49
15	Conjugated Copolymers of Vinylene Flanked Naphthalene Diimide. Macromolecules, 2016, 49, 6384-6393.	4.8	49
16	A Nature-Inspired Conjugated Polymer for High Performance Transistors and Solar Cells. Macromolecules, 2015, 48, 5148-5154.	4.8	48
17	One-Pot Synthesis of Poly(vinyl alcohol) (PVA) Copolymers via Ruthenium Catalyzed Equilibrium Ring-Opening Metathesis Polymerization of Hydroxyl Functionalized Cyclopentene. Macromolecules, 2014, 47, 8190-8195.	4.8	42
18	Synthesis of Recyclable Tire Additives via Equilibrium Ring-Opening Metathesis Polymerization. ACS Sustainable Chemistry and Engineering, 2016, 4, 6090-6094.	6.7	41

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19	Mapping the electrocatalytic activity of MoS₂ across its amorphous to crystalline transition. Journal of Materials Chemistry A, 2017, 5, 5129-5141.	10.3	41
20	Synthesis and Characterization of Fused Pyrrolo[3,2-d:4,5-dâ€²]bisthiazole-Containing Polymers. Organic Letters, 2010, 12, 5478-5481.	4.6	40
21	Mapping Catalytically Relevant Edge Electronic States of MoS₂. ACS Central Science, 2018, 4, 493-503.	11.3	39
22	Selective oxidation of sulfides to sulfoxides using a silica immobilised vanadyl alkyl phosphonate catalyst. Tetrahedron Letters, 2006, 47, 8017-8019.	1.4	36
23	Donorâ€“acceptor conjugated ladder polymer via aromatization-driven thermodynamic annulation. Polymer Chemistry, 2018, 9, 1603-1609.	3.9	36
24	Palladium ethylthioglycolate modified silicaâ€”a new heterogeneous catalyst for Suzuki and Heck cross-coupling reactions. Journal of Molecular Catalysis A, 2007, 273, 298-302.	4.8	33
25	Highâ€Performance Thermoresponsive Dualâ€Output Dye System for Smart Textile Application. Advanced Functional Materials, 2020, 30, 1906463.	14.9	33
26	Dithio palladium modified silicasâ€”New heterogeneous catalysts for Suzuki cross-coupling reactions. Journal of Molecular Catalysis A, 2007, 278, 160-164.	4.8	30
27	Bithiazole: An Intriguing Electronâ€Deficient Building for Plastic Electronic Applications. Macromolecular Rapid Communications, 2017, 38, 1600610.	3.9	27
28	A phaseâ€separable secondâ€generation hoveydaâ€grubbs catalyst for ringâ€opening metathesis polymerization. Journal of Polymer Science Part A, 2012, 50, 3954-3959.	2.3	25
29	Indacenodithiazole-Ladder-Type Bridged Di(thiophene)-Difluoro-Benzothiadiazole-Conjugated Copolymers as Ambipolar Organic Field-Effect Transistors. Chemistry of Materials, 2019, 31, 9488-9496.	6.7	25
30	Navigating the design space of inorganic materials synthesis using statistical methods and machine learning. Dalton Transactions, 2020, 49, 11480-11488.	3.3	24
31	Synthesis of Polypentenamer and Poly(Vinyl Alcohol) with a Phaseâ€Separable Polyisobutyleneâ€Supported Secondâ€Generation Hoveydaâ€“Grubbs Catalyst. ChemCatChem, 2016, 8, 228-233.	3.7	23
32	Rutheniumâ€Catalyzed Metathesis of Conjugated Polyenes. ChemCatChem, 2016, 8, 2865-2875.	3.7	23
33	Synthesis of low band gap polymers based on pyrrolo[3,2-d:4,5-dâ€²]bisthiazole (PBTz) and thienylenevinylene (TV) for organic thin-film transistors (OTFTs). Journal of Materials Chemistry C, 2017, 5, 2247-2258.	5.5	23
34	Pauli Paramagnetism of Stable Analogues of Pernigraniline Salt Featuring Ladder-Type Constitution. Journal of the American Chemical Society, 2020, 142, 641-648.	13.7	23
35	Selective oxidations of sulfides to sulfoxides using immobilised cerium alkyl phosphonate. Tetrahedron Letters, 2005, 46, 4365-4368.	1.4	22
36	Heavy-atom effects on intramolecular singlet fission in a conjugated polymer. Journal of Chemical Physics, 2019, 151, 044902.	3.0	22

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37	Alkoxy functionalized benzothiadiazole based donorâ€“acceptor conjugated copolymers for organic field-effect transistors. Journal of Materials Chemistry C, 2021, 9, 5113-5123.	5.5	22
38	Controlled synthesis of conjugated random copolymers in a droplet-based microreactor. Materials Horizons, 2014, 1, 214-218.	12.2	21
39	Hybrid Polymer Solar Cells from Zinc Oxide and Poly(3-hexylselenophene). Journal of Physical Chemistry C, 2011, 115, 18901-18908.	3.1	19
40	Ring-opening metathesis polymerization using polyisobutylene supported Grubbs second-generation catalyst. RSC Advances, 2014, 4, 43766-43771.	3.6	19
41	Synthesis and catalytic activity of supported acenaphthoimidazolylidene N-heterocyclic carbene ruthenium complex for ring closing metathesis (RCM) and ring opening metathesis polymerization (ROMP). Journal of Catalysis, 2016, 344, 100-107.	6.2	19
42	The effects of the PEDOT:PSS acidity on the performance and stability of P3HT:PCBM-based OSCs. Journal of Materials Science: Materials in Electronics, 2018, 29, 19287-19295.	2.2	19
43	Green Light-Responsive CO-Releasing Polymeric Materials Derived from Ring-Opening Metathesis Polymerization. ACS Applied Materials & Interfaces, 2019, 11, 34376-34384.	8.0	19
44	Solution-processable porous graphitic carbon from bottom-up synthesis and low-temperature graphitization. Chemical Science, 2021, 12, 8438-8444.	7.4	19
45	Effect of Alkyl Chain Branching Point on 3D Crystallinity in High Nâ€Type Mobility Indolonaphthyridine Polymers. Advanced Functional Materials, 2017, 27, 1704069.	14.9	18
46	Electron-Deficient Polycyclic Ï€-System Fused with Multiple Bâ†N Coordinate Bonds. Journal of Organic Chemistry, 2021, 86, 2100-2106.	3.2	18
47	Molecular Encapsulation of Naphthalene Diimide (NDI) Based Ï€â€Conjugated Polymers: A Tool for Understanding Photoluminescence. Angewandte Chemie - International Edition, 2021, 60, 25005-25012.	13.8	18
48	Effects of Thermal Annealing Upon the Nanomorphology of Poly(3â€hexylselenophene)â€PCBM Blends. Macromolecular Rapid Communications, 2011, 32, 1454-1460.	3.9	17
49	Fused pyrrolo[3,2-d:4,5-dâ€²]bisthiazole-containing polymers for using in high-performance organic bulk heterojunction solar cells. Solar Energy Materials and Solar Cells, 2012, 96, 112-116.	6.2	17
50	Chalcogen Bridged Thieno- and Selenopheno[2,3-d:5,4-dâ€²]bisthiazole and Their Diketopyrrolopyrrole Based Low-Bandgap Copolymers. Macromolecules, 2018, 51, 6076-6084.	4.8	16
51	Poly-Lipoic Ester-Based Coacervates for the Efficient Removal of Organic Pollutants from Water and Increased Point-of-Use Versatility. Chemistry of Materials, 2019, 31, 4405-4417.	6.7	16
52	Phaseâ€Separable Polyisobutylene Palladiumâ€PEPPSI Precatalysts: Synthesis and Application in Buchwaldâ€“Hartwig Amination. Macromolecular Rapid Communications, 2017, 38, 1700214.	3.9	14
53	Synthesis and Photocyclization of Conjugated Diselenophene Pyrrole-2,5-dione Based Monomers for Optoelectronics. Macromolecules, 2021, 54, 665-672.	4.8	14
54	Molecular engineering of benzothiadiazole-based polymers: balancing charge transport and stretchability in organic field-effect transistors. Journal of Materials Chemistry C, 2022, 10, 4236-4246.	5.5	14

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55	Cyclodextrin-derived polymer networks for selective molecular adsorption. Chemical Communications, 2020, 56, 11783-11786.	4.1	13
56	Enhanced Organic Solar Cell Performance by Lateral Side Chain Engineering on Benzodithiophene-Based Small Molecules. ACS Applied Energy Materials, 2018, 1, 3684-3692.	5.1	12
57	Alignment of Lyotropic Liquid Crystalline Conjugated Polymers in Floating Films. ACS Omega, 2018, 3, 14807-14813.	3.5	10
58	Synthesis of TPEN variants to improve cancer cells selective killing capacity. Bioorganic Chemistry, 2019, 87, 366-372.	4.1	10
59	Synthesis, characterization and crystal structures of novel fluorinated di(thiazolyl)benzene derivatives. Organic Chemistry Frontiers, 2019, 6, 780-790.	4.5	10
60	Multifunctional rhodamine B appended ROMP derived fluorescent probe detects Al3+ and selectively labels lysosomes in live cells. Scientific Reports, 2020, 10, 19519.	3.3	9
61	Metal-Insulator Transitions in Î²â€²-Cu V2O5 Mediated by Polaron Oscillation and Cation Shuttling. Matter, 2020, 2, 1166-1186.	10.0	9
62	Electronic structure modulation of MoS2 by substitutional Se incorporation and interfacial MoO3 hybridization: Implications of Fermi engineering for electrocatalytic hydrogen evolution and oxygen evolution. Chemical Physics Reviews, 2021, 2, .	5.7	8
63	Transition-Metal-Free Homopolymerization of Pyrrolo[2,3-d:5,4-dâ€²]bisthiazoles via Nucleophilic Aromatic Substitution. ACS Applied Materials & Interfaces, 2021, 13, 41094-41101.	8.0	8
64	Feasible fabrication and textile application of polymer composites featuring dual optical thermoresponses. Chemical Engineering Journal, 2021, 419, 129553.	12.7	8
65	Template-Synthesis of Conjugated Poly(3-Hexylselenophene) (P3HS) Nanofibers Using Femtosecond Laser Machined Fused Silica Templates. MRS Advances, 2017, 2, 2957-2960.	0.9	6
66	Molecular Design Approach for Directed Alignment of Conjugated Polymers. Macromolecules, 2019, 52, 6485-6494.	4.8	6
67	Design, synthesis and characterization of fused bithiazole- and dithiophene-based low bandgap thienylenevinylene copolymers. Polymer Chemistry, 2021, 12, 5942-5951.	3.9	6
68	Living ringâ€opening metathesis polymerization of norbornenes bay â€functionalized perylene diimides. Journal of Polymer Science, 0, , .	3.8	6
69	Rare and unexpected coordination to copper(ii) by a tertiary amide in a macrocyclic ligand. Dalton Transactions, 2004, , 3163.	3.3	4
70	Convenient protocols for Mizorokiâ€“Heck reactions of aromatic bromides and polybromides with fluorous alkenes of the formula H₂Cî€CH(CF₂)_{nâ^'1}CF₃ (n = 8, 10). Organic and Biomolecular Chemistry, 2016, 14, 10058-10069.	2.8	4
71	Functionalized Polyisobutylene and Liquid/Liquid Separations as a Method for Scavenging Transition Metals from Homogeneously Catalyzed Reactions. Applied Sciences (Switzerland), 2019, 9, 120.	2.5	4
72	Organocatalytic Michael Addition as a Method for Polyisobutylene Chainâ€End Functionalization. Macromolecular Rapid Communications, 2020, 41, 2000382.	3.9	4

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73	An electron rich indaceno [2,1-b:6,5-bâ€²] dithiophene derivative as a high intramolecular charge transfer material in dye sensitized solar cells. New Journal of Chemistry, 2021, 45, 2734-2741.	2.8	4
74	Near-Ambient Nanocomposite Thermochromic Fenestration Elements from Post-Encapsulation-Annealed Tungsten-Alloyed Vanadium(IV) Oxide Nanocrystals. ACS Applied Energy Materials, 2022, 5, 4829-4839.	5.1	4
75	The effects of solvent treated PEDOT:PSS buffer layer in organic solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 13889-13896.	2.2	3
76	Tyrian purple: an ancient natural dye for cross-conjugated n-type charge transport. Journal of Materials Chemistry C, 2021, 9, 4200-4205.	5.5	2
77	Molecular Encapsulation of Naphthalene Diimide (NDI) Based Ï€â€Conjugated Polymers: A Tool for Understanding Photoluminescence. Angewandte Chemie, 0, , .	2.0	2
78	Synthesis of thioetherâ€functional poly(olefin)s via rutheniumâ€alkylidene initiated ringâ€opening metathesis polymerization. Journal of Polymer Science Part A, 2019, 57, 1741-1747.	2.3	1
79	One-Pot Tandem Ring-Opening and Ring-Closing Metathesis Polymerization of Disubstituted Cyclopentenes Featuring a Terminal Alkyne Functionality. Macromolecules, 2020, 53, 4330-4337.	4.8	1
80	Multiscale Textured Mesh Substrates that Glide Alcohol Droplets and Impede Ice Nucleation. Advanced Engineering Materials, 2022, 24, .	3.5	1
81	Inverse emulsion-crosslinked cyclodextrin polymer nanoparticles for selective adsorption and chemiresistive sensing of BTEX. Materials Today Chemistry, 2022, 24, 100915.	3.5	1
82	Selective Oxidations of Sulfides to Sulfoxides Using Immobilized Cerium Alkyl Phosphonate.. ChemInform, 2005, 36, no.	0.0	0
83	Nature-Inspired Conjugated Molecules for Future Organic Solar Cell Materials. , 2016, , .		0
84	Synthesis and Applications of Novel Ladder Polymers for Organic Solar Cells. , 2016, , .		0
85	Ruthenium-alkylidene Initiated Cyclopolymerization and Tandem Ringopening/ Ring-closing Metathesis (RO/RCM) Polymerization: Facile Access to Cycloolefin-based Polymers. Current Organic Chemistry, 2021, 25, 2791-2805.	1.6	0