

Mohammed Al-Hashimi

List of Publications by Year in descending order

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218677

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#	ARTICLE	IF	CITATIONS
1	Molecular engineering of benzothiadiazole-based polymers: balancing charge transport and stretchability in organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4236-4246.	5.5	14
2	Near-Ambient Nanocomposite Thermo-chromic Fenestration Elements from Post-Encapsulation-Annealed Tungsten-Alloyed Vanadium(IV) Oxide Nanocrystals. <i>ACS Applied Energy Materials</i> , 2022, 5, 4829-4839.	5.1	4
3	Multiscale Textured Mesh Substrates that Glide Alcohol Droplets and Impede Ice Nucleation. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	1
4	Inverse emulsion-crosslinked cyclodextrin polymer nanoparticles for selective adsorption and chemiresistive sensing of BTEX. <i>Materials Today Chemistry</i> , 2022, 24, 100915.	3.5	1
5	Synthesis and Photocyclization of Conjugated Diselenophene Pyrrole-2,5-dione Based Monomers for Optoelectronics. <i>Macromolecules</i> , 2021, 54, 665-672.	4.8	14
6	Electron-Deficient Polycyclic π -System Fused with Multiple B π N Coordinate Bonds. <i>Journal of Organic Chemistry</i> , 2021, 86, 2100-2106.	3.2	18
7	Design, synthesis and characterization of fused bithiazole- and dithiophene-based low bandgap thienylenevinylene copolymers. <i>Polymer Chemistry</i> , 2021, 12, 5942-5951.	3.9	6
8	An electron rich indaceno [2,1- <i>b</i> :6,5- <i>b'</i>]-dithiophene derivative as a high intramolecular charge transfer material in dye sensitized solar cells. <i>New Journal of Chemistry</i> , 2021, 45, 2734-2741.	2.8	4
9	Solution-processable porous graphitic carbon from bottom-up synthesis and low-temperature graphitization. <i>Chemical Science</i> , 2021, 12, 8438-8444.	7.4	19
10	Tyrian purple: an ancient natural dye for cross-conjugated n-type charge transport. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4200-4205.	5.5	2
11	Alkoxy functionalized benzothiadiazole based donor-acceptor conjugated copolymers for organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5113-5123.	5.5	22
12	Electronic structure modulation of MoS ₂ by substitutional Se incorporation and interfacial MoO ₃ hybridization: Implications of Fermi engineering for electrocatalytic hydrogen evolution and oxygen evolution. <i>Chemical Physics Reviews</i> , 2021, 2, .	5.7	8
13	Transition-Metal-Free Homopolymerization of Pyrrolo[2,3- <i>d</i> :5,4- <i>d'</i>]-bisthiazoles via Nucleophilic Aromatic Substitution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41094-41101.	8.0	8
14	Ruthenium-alkylidene Initiated Cyclopolymerization and Tandem Ringopening/ Ring-closing Metathesis (RO/RCM) Polymerization: Facile Access to Cycloolefin-based Polymers. <i>Current Organic Chemistry</i> , 2021, 25, 2791-2805.	1.6	0
15	Feasible fabrication and textile application of polymer composites featuring dual optical thermoresponses. <i>Chemical Engineering Journal</i> , 2021, 419, 129553.	12.7	8
16	Molecular Encapsulation of Naphthalene Diimide (NDI) Based π -Conjugated Polymers: A Tool for Understanding Photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25005-25012.	13.8	18
17	High-Performance Thermoresponsive Dual-Output Dye System for Smart Textile Application. <i>Advanced Functional Materials</i> , 2020, 30, 1906463.	14.9	33
18	Pauli Paramagnetism of Stable Analogues of Pernigraniline Salt Featuring Ladder-Type Constitution. <i>Journal of the American Chemical Society</i> , 2020, 142, 641-648.	13.7	23

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19	Navigating the design space of inorganic materials synthesis using statistical methods and machine learning. Dalton Transactions, 2020, 49, 11480-11488.	3.3	24
20	Cyclodextrin-derived polymer networks for selective molecular adsorption. Chemical Communications, 2020, 56, 11783-11786.	4.1	13
21	Organocatalytic Michael Addition as a Method for Polyisobutylene Chain-End Functionalization. Macromolecular Rapid Communications, 2020, 41, 2000382.	3.9	4
22	Multifunctional rhodamine B appended ROMP derived fluorescent probe detects Al ³⁺ and selectively labels lysosomes in live cells. Scientific Reports, 2020, 10, 19519.	3.3	9
23	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
24	Metal-Insulator Transitions in I^{2+} -Cu V ₂ O ₅ Mediated by Polaron Oscillation and Cation Shuttling. Matter, 2020, 2, 1166-1186.	10.0	9
25	Molecular Design Approach for Directed Alignment of Conjugated Polymers. Macromolecules, 2019, 52, 6485-6494.	4.8	6
26	Synthesis of thioether-functional poly(olefin)s via ruthenium-alkylidene initiated ring-opening metathesis polymerization. Journal of Polymer Science Part A, 2019, 57, 1741-1747.	2.3	1
27	Heavy-atom effects on intramolecular singlet fission in a conjugated polymer. Journal of Chemical Physics, 2019, 151, 044902.	3.0	22
28	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
29	Green Light-Responsive CO-Releasing Polymeric Materials Derived from Ring-Opening Metathesis Polymerization. ACS Applied Materials & Interfaces, 2019, 11, 34376-34384.	8.0	19
30	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
31	Synthesis of TPEN variants to improve cancer cells selective killing capacity. Bioorganic Chemistry, 2019, 87, 366-372.	4.1	10
32	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
33	Synthesis, characterization and crystal structures of novel fluorinated di(thiazolyl)benzene derivatives. Organic Chemistry Frontiers, 2019, 6, 780-790.	4.5	10
34	Mapping Catalytically Relevant Edge Electronic States of MoS ₂ . ACS Central Science, 2018, 4, 493-503.	11.3	39
35	Donor-acceptor conjugated ladder polymer <i>via</i> aromatization-driven thermodynamic annulation. Polymer Chemistry, 2018, 9, 1603-1609.	3.9	36
36	Alignment of Lyotropic Liquid Crystalline Conjugated Polymers in Floating Films. ACS Omega, 2018, 3, 14807-14813.	3.5	10

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37	The effects of the PEDOT:PSS acidity on the performance and stability of P3HT:PCBM-based OSCs. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 19287-19295.	2.2	19
38	High-k Gate Dielectrics for Emerging Flexible and Stretchable Electronics. <i>Chemical Reviews</i> , 2018, 118, 5690-5754.	47.7	530
39	The effects of solvent treated PEDOT:PSS buffer layer in organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13889-13896.	2.2	3
40	Chalcogen Bridged Thieno- and Selenopheno[2,3-d:5,4-d']bisthiazole and Their Diketopyrrolopyrrole Based Low-Bandgap Copolymers. <i>Macromolecules</i> , 2018, 51, 6076-6084.	4.8	16
41	Enhanced Organic Solar Cell Performance by Lateral Side Chain Engineering on Benzodithiophene-Based Small Molecules. <i>ACS Applied Energy Materials</i> , 2018, 1, 3684-3692.	5.1	12
42	Synthesis of low band gap polymers based on pyrrolo[3,2-d:4,5-d']bisthiazole (PBTz) and thienylenevinylene (TV) for organic thin-film transistors (OTFTs). <i>Journal of Materials Chemistry C</i> , 2017, 5, 2247-2258.	5.5	23
43	Fully conjugated ladder polymers. <i>Chemical Science</i> , 2017, 8, 2503-2521.	7.4	184
44	Bisthiazole: An Intriguing Electron-Deficient Building for Plastic Electronic Applications. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600610.	3.9	27
45	Mapping the electrocatalytic activity of MoS ₂ across its amorphous to crystalline transition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5129-5141.	10.3	41
46	Phase-Separable Polyisobutylene Palladium-PEPSI Precatalysts: Synthesis and Application in Buchwald-Hartwig Amination. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700214.	3.9	14
47	Template-Synthesis of Conjugated Poly(3-Hexylselenophene) (P3HS) Nanofibers Using Femtosecond Laser Machined Fused Silica Templates. <i>MRS Advances</i> , 2017, 2, 2957-2960.	0.9	6
48	Effect of Alkyl Chain Branching Point on 3D Crystallinity in High Na ⁺ -Type Mobility Indolonaphthyridine Polymers. <i>Advanced Functional Materials</i> , 2017, 27, 1704069.	14.9	18
49	Ring opening metathesis polymerization (ROMP) of five- to eight-membered cyclic olefins: Computational, thermodynamic, and experimental approach. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3137-3145.	2.3	54
50	Nature-Inspired Conjugated Molecules for Future Organic Solar Cell Materials. , 2016, , .		0
51	Synthesis and Applications of Novel Ladder Polymers for Organic Solar Cells. , 2016, , .		0
52	Synthesis of Polypentenamer and Poly(Vinyl Alcohol) with a Phase-Separable Polyisobutylene-Supported Second-Generation Hoveyda-Grubbs Catalyst. <i>ChemCatChem</i> , 2016, 8, 228-233.	3.7	23
53	Convenient protocols for Mizoroki-Heck reactions of aromatic bromides and polybromides with fluorous alkenes of the formula H ₂ C=CH(CF ₂) _n CF ₃ (n = 8, 10). <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10058-10069.	2.8	4
54	Synthesis and catalytic activity of supported acenaphthoimidazolyliene N-heterocyclic carbene ruthenium complex for ring closing metathesis (RCM) and ring opening metathesis polymerization (ROMP). <i>Journal of Catalysis</i> , 2016, 344, 100-107.	6.2	19

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55	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. <i>Chemistry of Materials</i> , 2016, 28, 8016-8024.	6.7	53
56	Ruthenium-catalyzed Metathesis of Conjugated Polyenes. <i>ChemCatChem</i> , 2016, 8, 2865-2875.	3.7	23
57	Synthesis of Recyclable Tire Additives via Equilibrium Ring-Opening Metathesis Polymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6090-6094.	6.7	41
58	An in Situ Sulfidation Approach for the Integration of MoS ₂ Nanosheets on Carbon Fiber Paper and the Modulation of Its Electrocatalytic Activity by Interfacing with C ₆₀ . <i>ACS Catalysis</i> , 2016, 6, 6246-6254.	11.2	60
59	Conjugated Copolymers of Vinylene Flanked Naphthalene Diimide. <i>Macromolecules</i> , 2016, 49, 6384-6393.	4.8	49
60	Indolo-naphthyridine-6,13-dione Thiophene Building Block for Conjugated Polymer Electronics: Molecular Origin of Ultrahigh n-Type Mobility. <i>Chemistry of Materials</i> , 2016, 28, 8366-8378.	6.7	52
61	Thermodynamic synthesis of solution processable ladder polymers. <i>Chemical Science</i> , 2016, 7, 881-889.	7.4	70
62	Influence of the heteroatom on the optoelectronic properties and transistor performance of soluble thiophene-, selenophene- and tellurophene-vinylene copolymers. <i>Chemical Science</i> , 2016, 7, 1093-1099.	7.4	84
63	A Nature-Inspired Conjugated Polymer for High Performance Transistors and Solar Cells. <i>Macromolecules</i> , 2015, 48, 5148-5154.	4.8	48
64	One-Pot Synthesis of Poly(vinyl alcohol) (PVA) Copolymers via Ruthenium Catalyzed Equilibrium Ring-Opening Metathesis Polymerization of Hydroxyl Functionalized Cyclopentene. <i>Macromolecules</i> , 2014, 47, 8190-8195.	4.8	42
65	Controlled synthesis of conjugated random copolymers in a droplet-based microreactor. <i>Materials Horizons</i> , 2014, 1, 214-218.	12.2	21
66	Ring-opening metathesis polymerization using polyisobutylene supported Grubbs second-generation catalyst. <i>RSC Advances</i> , 2014, 4, 43766-43771.	3.6	19
67	Activated Singlet Exciton Fission in a Semiconducting Polymer. <i>Journal of the American Chemical Society</i> , 2013, 135, 12747-12754.	13.7	143
68	Effects of a Heavy Atom on Molecular Order and Morphology in Conjugated Polymer:Fullerene Photovoltaic Blend Thin Films and Devices. <i>ACS Nano</i> , 2012, 6, 9646-9656.	14.6	70
69	Polymer-Fullerene Miscibility: A Metric for Screening New Materials for High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 15869-15879.	13.7	196
70	A phase-separable second-generation Grubbs catalyst for ring-opening metathesis polymerization. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3954-3959.	2.3	25
71	Fused pyrrolo[3,2-d:4,5-d']bisthiazole-containing polymers for using in high-performance organic bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 96, 112-116.	6.2	17
72	Synthesis, Characterization, and Field Effect Transistor Properties of Regioregular Poly(3-alkyl-2,5-selenylenevinylene). <i>Macromolecules</i> , 2011, 44, 5194-5199.	4.8	49

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73	Hybrid Polymer Solar Cells from Zinc Oxide and Poly(3-hexylselenophene). Journal of Physical Chemistry C, 2011, 115, 18901-18908.	3.1	19
74	Facile infiltration of semiconducting polymer into mesoporous electrodes for hybrid solar cells. Energy and Environmental Science, 2011, 4, 3051.	30.8	68
75	Effects of Thermal Annealing Upon the Nanomorphology of Poly(3-hexylselenophene)PCBM Blends. Macromolecular Rapid Communications, 2011, 32, 1454-1460.	3.9	17
76	Influence of Ion Induced Local Coulomb Field and Polarity on Charge Generation and Efficiency in Poly(3-hexylthiophene)Based Solid-State Dye-Sensitized Solar Cells. Advanced Functional Materials, 2011, 14.9 21, 2571-2579.	14.9	68
77	Synthesis and Characterization of Fused Pyrrolo[3,2-d:4,5-d']bisthiazole-Containing Polymers. Organic Letters, 2010, 12, 5478-5481.	4.6	40
78	Palladium ethylthioglycolate modified silica a new heterogeneous catalyst for Suzuki and Heck cross-coupling reactions. Journal of Molecular Catalysis A, 2007, 273, 298-302.	4.8	33
79	Dithio palladium modified silicas New heterogeneous catalysts for Suzuki cross-coupling reactions. Journal of Molecular Catalysis A, 2007, 278, 160-164.	4.8	30
80	Selective oxidation of sulfides to sulfoxides using a silica immobilised vanadyl alkyl phosphonate catalyst. Tetrahedron Letters, 2006, 47, 8017-8019.	1.4	36
81	Selective oxidations of sulfides to sulfoxides using immobilised cerium alkyl phosphonate. Tetrahedron Letters, 2005, 46, 4365-4368.	1.4	22
82	Selective Oxidations of Sulfides to Sulfoxides Using Immobilized Cerium Alkyl Phosphonate.. ChemInform, 2005, 36, no.	0.0	0
83	Rare and unexpected coordination to copper(ii) by a tertiary amide in a macrocyclic ligand. Dalton Transactions, 2004, , 3163.	3.3	4
84	Molecular Encapsulation of Naphthalene Diimide (NDI) Based Conjugated Polymers: A Tool for Understanding Photoluminescence. Angewandte Chemie, 0, , .	2.0	2
85	Living ring-opening metathesis polymerization of norbornenes bay functionalized perylene diimides. Journal of Polymer Science, 0, , .	3.8	6