

Hua Li

List of Publications by Year in descending order

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96
papers

3,816
citations

109321

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144013

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96
docs citations

96
times ranked

3627
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#	ARTICLE	IF	CITATIONS
1	One-step in-situ preparation of N-doped TiO ₂ @C derived from Ti ₃ C ₂ MXene for enhanced visible-light driven photodegradation. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 154-161.	20.2	280
2	Construction of Hierarchical Hollow Co ₉ S ₈ /ZnIn ₂ S ₄ Tubular Heterostructures for Highly Efficient Solar Energy Conversion and Environmental Remediation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8255-8261.	13.8	233
3	A Small-Molecule-Based Ternary Data-Storage Device. <i>Journal of the American Chemical Society</i> , 2010, 132, 5542-5543.	13.7	183
4	Tailoring of Molecular Planarity to Reduce Charge Injection Barrier for High-Performance Small-Molecule-Based Ternary Memory Device with Low Threshold Voltage. <i>Advanced Materials</i> , 2012, 24, 6210-6215.	21.0	131
5	Micro-“Nanocomposites in Environmental Management. <i>Advanced Materials</i> , 2016, 28, 10443-10458.	21.0	131
6	Recent advances in organic-based materials for resistive memory applications. <i>Informa-Materials</i> , 2020, 2, 995-1033.	17.3	125
7	Modified-MOF-808-Loaded Polyacrylonitrile Membrane for Highly Efficient, Simultaneous Emulsion Separation and Heavy Metal Ion Removal. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39227-39235.	8.0	109
8	Rational Design of Small Molecules to Implement Organic Quaternary Memory Devices. <i>Advanced Functional Materials</i> , 2016, 26, 146-154.	14.9	102
9	Multilevel Conductance Switching of a Memory Device Induced by Enhanced Intermolecular Charge Transfer. <i>Advanced Materials</i> , 2015, 27, 5968-5973.	21.0	100
10	Flexible Electrospun Carbon Nanofiber/Tin(IV) Sulfide Core/Sheath Membranes for Photocatalytically Treating Chromium(VI)-Containing Wastewater. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28671-28677.	8.0	81
11	Hierarchical Z-scheme g-C ₃ N ₄ /Au/ZnIn ₂ S ₄ photocatalyst for highly enhanced visible-light photocatalytic nitric oxide removal and carbon dioxide conversion. <i>Environmental Science: Nano</i> , 2020, 7, 676-687.	4.3	79
12	Controlling Crystallite Orientation of Diketopyrrolopyrrole-Based Small Molecules in Thin Films for Highly Reproducible Multilevel Memory Device: Role of Furan Substitution. <i>Advanced Functional Materials</i> , 2015, 25, 4246-4254.	14.9	76
13	3D Aerogel of Graphitic Carbon Nitride Modified with Perylene Imide and Graphene Oxide for Highly Efficient Nitric Oxide Removal under Visible Light. <i>Small</i> , 2018, 14, e1800416.	10.0	75
14	Superhydrophobic Metal-Organic Framework Membrane with Self-Repairing for High-Efficiency Oil/Water Emulsion Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2709-2717.	6.7	64
15	Molecular length adjustment for organic azo-based nonvolatile ternary memory devices. <i>Journal of Materials Chemistry</i> , 2012, 22, 16582.	6.7	61
16	Direct Dual Z-Scheme Bi ₂ WO ₆ /GQDs/WO ₃ Inverse Opals for Enhanced Photocatalytic Activities under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7921-7927.	6.7	55
17	3D ordered MoP inverse opals deposited with CdS quantum dots for enhanced visible light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 255-262.	20.2	54
18	Durable and Robust Self-Healing Superhydrophobic Co-PDMS@ZIF-8-Coated MWCNT Films for Extremely Efficient Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38313-38320.	8.0	51

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19	Controlled fabrication of mesoporous ZSM-5 zeolite-supported PdCu alloy nanoparticles for complete oxidation of toluene. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118560.	20.2	51
20	Highly Robust Organometallic Small-Molecule-Based Nonvolatile Resistive Memory Controlled by a Redox-Gated Switching Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40332-40338.	8.0	50
21	Durable and Stable MnMoO ₄ -Coated Copper Mesh for Highly Efficient Oil-in-Water Emulsion Separation and Photodegradation of Organic Contaminants. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23789-23797.	8.0	48
22	Effect of a ĩ€-spacer between a donor and an acceptor on small molecule-based data-storage device performance. <i>Chemical Communications</i> , 2013, 49, 9470.	4.1	44
23	Effects of gradual oxidation of aromatic sulphur-heterocycle derivatives on multilevel memory data storage performance. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2033-2039.	5.5	44
24	Nonlinear optical properties and memory effects of the azo polymers carrying different substituents. <i>Dyes and Pigments</i> , 2011, 88, 18-24.	3.7	42
25	Thermally Stable Ternary Data-Storage Device Based on Twisted Anthraquinone Molecular Design. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22832-22839.	3.1	40
26	Effect of single atom substitution in benzochalcogendiazole acceptors on the performance of ternary memory devices. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9145-9153.	5.5	40
27	Hollow porous carbon nitride immobilized on carbonized nanofibers for highly efficient visible light photocatalytic removal of NO. <i>Nanoscale</i> , 2016, 8, 12066-12072.	5.6	40
28	Thiadizoloquinoxaline-Based N-Heteroacenes as Active Elements for High-Density Data-Storage Device. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15971-15979.	8.0	40
29	AgBr-loaded hollow porous carbon nitride with ultrahigh activity as visible light photocatalysts for water remediation. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 155-162.	20.2	40
30	Morphology-controlled fabrication of CNT@MoS ₂ /SnS ₂ nanotubes for promoting photocatalytic reduction of aqueous Cr(VI) under visible light. <i>Journal of Alloys and Compounds</i> , 2019, 784, 282-292.	5.5	40
31	Z-scheme photocatalytic NO removal on a 2D/2D iodine doped BiOIO ₃ /g-C ₃ N ₄ under visible-light irradiation. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 426-434.	9.4	39
32	Highly Efficient Catalysts of Bimetallic Pt@Ru Nanocrystals Supported on Ordered ZrO ₂ Nanotube for Toluene Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13781-13789.	8.0	39
33	Controlled deposition of large-area and highly-ordered thin films: effect of dip-coating-induced morphological evolution on resistive memory performance. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3512-3521.	5.5	38
34	Mil-53(Fe)-loaded polyacrylonitrile membrane with superamphiphilicity and double hydrophobicity for effective emulsion separation and photocatalytic dye degradation. <i>Separation and Purification Technology</i> , 2022, 282, 119910.	7.9	37
35	Dynamic Random Access Memory Devices Based on Functionalized Copolymers with Pendant Hydrazine Naphthalimide Group. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8288-8294.	3.1	36
36	Dual-Mechanism-Controlled Ternary Memory Devices Fabricated by Random Copolymers with Pendent Carbazole and Nitro-Azobenzene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25546-25551.	3.1	36

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37	N-Doped and CdSe-Sensitized 3D-Ordered TiO ₂ Inverse Opal Films for Synergistically Enhanced Photocatalytic Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 4000-4007.	6.7	36
38	All-Inorganic Ionic Polymer-Based Memristor for High-Performance and Flexible Artificial Synapse. Advanced Functional Materials, 2020, 30, 2004245.	14.9	36
39	3D Gold-Modified Cerium and Cobalt Oxide Catalyst on a Graphene Aerogel for Highly Efficient Catalytic Formaldehyde Oxidation. Small, 2019, 15, e1804415.	10.0	34
40	Adjustment of conformation change and charge trapping in ion-doped polymers to achieve ternary memory performance. Journal of Materials Chemistry C, 2013, 1, 7883.	5.5	32
41	Organic Multilevel Memory Devices of Long-Term Environmental Stability via Incorporation of Fluorine. Advanced Electronic Materials, 2016, 2, 1500474.	5.1	32
42	Hollow Mesoporous Co ₃ O ₄ @CeO ₂ Composite Nanotubes with Open Ends for Efficient Catalytic CO Oxidation. ChemSusChem, 2019, 12, 1084-1090.	6.8	32
43	Solution-Processed Small Molecule Donor/Acceptor Blends for Electrical Memory Devices with Fine-Tunable Storage Performance. Journal of Physical Chemistry C, 2014, 118, 2154-2160.	3.1	31
44	One-Step Synthesis of Honeycomb-Like Carbon Nitride Isotype Heterojunction as Low-Cost, High-Performance Photocatalyst for Removal of NO. ACS Sustainable Chemistry and Engineering, 2018, 6, 11063-11070.	6.7	31
45	Persistent Multiexcitons from Polymers with Pendent Pentacenes. Journal of the American Chemical Society, 2019, 141, 9564-9569.	13.7	31
46	Fluorine-Induced Highly Reproducible Resistive Switching Performance: Facile Morphology Control through the Transition between J- and H-Aggregation. ACS Applied Materials & Interfaces, 2017, 9, 9926-9934.	8.0	30
47	Recyclable Carbon Nanofibers@Hierarchical I-Doped Bi ₂ O ₂ CO ₃ @MoS ₂ Membranes for Highly Efficient Water Remediation under Visible-Light Irradiation. ACS Sustainable Chemistry and Engineering, 2018, 6, 2676-2683.	6.7	29
48	Robust and durable self-healing superhydrophobic polymer-coated MWCNT film for highly efficient emulsion separation. Environmental Science: Nano, 2019, 6, 1259-1266.	4.3	29
49	Improved ternary memory performance of donor-acceptor structured molecules through cyano substitution. Journal of Materials Chemistry C, 2015, 3, 6778-6785.	5.5	28
50	Adjustment of ON-State Retention Ability Based on New Donor-Acceptor Imides through Structural Tailoring for Volatile Device Applications. ACS Applied Materials & Interfaces, 2014, 6, 94-100.	8.0	27
51	Nonvolatile Tri-State Resistive Memory Behavior of a Stable Pyrene-Fused N-Heteroacene with Ten Linearly-Annulated Rings. Chemistry - A European Journal, 2018, 24, 7845-7851.	3.3	27
52	A novel ternary memory property achieved through rational introduction of end-capping naphthalimide acceptors. Journal of Materials Chemistry C, 2017, 5, 7961-7968.	5.5	26
53	Improved Molecular Stacking and Data-Storage Performance of Pyridine- and Pyrimidine-Substituted Small Molecules. Advanced Functional Materials, 2018, 28, 1800568.	14.9	26
54	High-Performance and Stable Two-Dimensional MXene-Polyethyleneimine Composite Lamellar Membranes for Molecular Separation. ACS Applied Materials & Interfaces, 2022, 14, 10237-10245.	8.0	26

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55	Hierarchical Titanium Dioxide Nanowire/Metal-Organic Framework/Carbon Nanofiber Membranes for Highly Efficient Photocatalytic Degradation of Hydrogen Sulfide. <i>Chemistry - A European Journal</i> , 2018, 24, 15019-15025.	3.3	25
56	Rh-Doped SrTiO ₃ inverse opal with piezoelectric effect for enhanced visible-light-driven photodegradation of bisphenol A. <i>Environmental Science: Nano</i> , 2020, 7, 2267-2277.	4.3	25
57	Construction of Pd-Modified NiCoO _x Hollow Nanospheres with Surface Hydroxyls and Oxygen Vacancies for Highly Enhanced Catalytic Toluene Oxidation Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10581-10587.	6.7	25
58	Controllable and Versatile Electrophoretic Deposition Technology for Monolithic Organic Memory Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15482-15490.	8.0	24
59	Toward Highly Robust Nonvolatile Multilevel Memory by Fine Tuning of the Nanostructural Crystalline Solid-State Order. <i>Small</i> , 2021, 17, e2100102.	10.0	24
60	One-dimensional π -d conjugated coordination polymers: synthesis and their improved memory performance. <i>Science China Chemistry</i> , 2019, 62, 753-760.	8.2	23
61	Recent progress in the usage of tetrabromo-substituted naphthalenetetracarboxylic dianhydride as a building block to construct organic semiconductors and their applications. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3001-3026.	4.5	22
62	Overview of electric-field-induced deposition technology in fabricating organic thin films. <i>Journal of Materials Chemistry C</i> , 2021, 9, 374-394.	5.5	22
63	Deriving highly oriented organic nanofibers and ternary memory performance via salification-induced effects. <i>Chemical Communications</i> , 2018, 54, 10610-10613.	4.1	21
64	Fabrication of an FAPbBr ₃ /g-C ₃ N ₄ heterojunction to enhance NO removal efficiency under visible-light irradiation. <i>Chemical Engineering Journal</i> , 2022, 430, 132968.	12.7	21
65	Upgrading Electroresistive Memory from Binary to Ternary Through Single-Atom Substitution in the Molecular Design. <i>Chemistry - an Asian Journal</i> , 2017, 12, 45-51.	3.3	20
66	Triggering DRAM/SRAM memory behaviors by single atom substitution to alter the molecular planarity. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8605-8611.	5.5	19
67	A π - π stacking perylene imide/Bi ₂ WO ₆ hybrid with dual transfer approach for enhanced photocatalytic degradation. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 1021-1032.	9.4	18
68	Rewritable ternary data storage devices based on polymethacrylate containing pendent azobenzene-naphthalene with the combined effects of conformation change and charge traps. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8593-8598.	5.5	16
69	Flower-like Pt/Fe ₂ O ₃ @CeO ₂ Catalysts for Highly Efficient Low-Temperature Catalytic Oxidation of Toluene. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 5471-5481.	3.7	16
70	Eye-Readable Detection and Oxidation of CO with a Platinum-Based Catalyst and a Binuclear Rhodium Complex. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12258-12263.	13.8	13
71	The incorporation of the ionization effect in organic semiconductors assists in triggering multilevel resistive memory behaviors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3280-3289.	5.9	13
72	Enhanced Photocatalytic Oxidation of Nitric Oxide to MOF-derived Hollow Bimetallic Oxide Microcubes Supported on g-C ₃ N ₄ Nanosheets via π -n Heterojunction. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2921-2930.	3.7	13

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73	Platinum-Supported Zirconia Nanotube Arrays Supported on Graphene Aerogels Modified with Metal-Organic Frameworks: Adsorption and Oxidation of Formaldehyde at Room Temperature. Chemistry - A European Journal, 2019, 25, 16718-16724.	3.3	12
74	Terminal amino monomethylation-triggered intermolecular H- to J-aggregations to realize tunable memory devices. Journal of Materials Chemistry C, 2019, 7, 4863-4869.	5.5	12
75	Isomerization change and charge trap double mechanisms induced ternary data storage performance. Journal of Materials Chemistry C, 2021, 9, 569-574.	5.5	11
76	Controllable binary/ternary memory behavior induced by isomerization of phenylhydrazone groups in polymer side chains under ultraviolet light conditions. Journal of Materials Chemistry C, 0, , .	5.5	11
77	Tuning the Microstructure of Donor/Acceptor Blend Films To Achieve High-Performance Ternary Data-Storage Devices. Journal of Physical Chemistry C, 2019, 123, 12154-12160.	3.1	10
78	Nanocage-Shaped Co _{3x} Zr _x O ₄ Solid Solution Supports Loaded with Pt Nanoparticles as Effective Catalysts for the Enhancement of Toluene Oxidation. Small, 2020, 16, e2005715.	10.0	10
79	Ultrathin Two-Dimensional BiOCl with Oxygen Vacancies Anchored in Three-Dimensional Porous g-C ₃ N ₄ to Construct a Hierarchical Z-Scheme Heterojunction for the Photocatalytic Degradation of NO. Industrial & Engineering Chemistry Research, 2022, 61, 317-329.	3.7	10
80	Improving Memory Performances by Adjusting the Symmetry and Polarity of Fluoroazobenzene-Based Molecules. Chemistry - an Asian Journal, 2016, 11, 512-519.	3.3	9
81	Self-Healing Graphene-Reinforced Composite for Highly Efficient Oil/Water Separation. Langmuir, 2019, 35, 13950-13957.	3.5	9
82	Fabrication of One-Dimensional Organic Nanofiber Networks via Electrophoretic Deposition for a Nonvolatile Memory Device. ACS Applied Materials & Interfaces, 2020, 12, 57254-57263.	8.0	9
83	Pt-Co nanoparticles supported on hollow multi-shelled CeO ₂ as a catalyst for highly efficient toluene oxidation: Morphology control and the role of bimetal synergism. Journal of Colloid and Interface Science, 2022, 608, 48-59.	9.4	9
84	Solvent-Vapor Annealing of Amphiphile/Metal Interface for Orientated Molecular Stacking and Upgraded Resistive Memory Performance. Macromolecular Chemistry and Physics, 2019, 220, 1900334.	2.2	8
85	Tuning of electron density distribution on molecular conjugated skeleton to improve intermolecular aggregation style and device memory performance. Organic Electronics, 2019, 73, 255-260.	2.6	8
86	Effects of Single Atom N-Substitution in the Molecular Skeleton on Fabricated Film Quality and Memory Device Performance. Crystal Growth and Design, 2018, 18, 1432-1436.	3.0	7
87	Elucidating the Characteristics of Palladium-Anchored CeO ₂ -Modified Hexagonal Nanosheet Co ₃ O ₄ Catalysts for the Complete Oxidation of Volatile Organic Compounds. Industrial & Engineering Chemistry Research, 2022, 61, 7537-7546.	3.7	6
88	Enhancing the Photodegradation Property of NO through the Construction of a SrTiO ₃ /GQDs/NH ₂ -UiO-66 Heterojunction. Industrial & Engineering Chemistry Research, 2022, 61, 3550-3560.	3.7	6
89	Nanomicelles Array for Ultrahigh-Density Data Storage. Small, 2022, 18, .	10.0	6
90	Eye-Readable Detection and Oxidation of CO with a Platinum-Based Catalyst and a Binuclear Rhodium Complex. Angewandte Chemie, 2019, 131, 12386-12391.	2.0	5

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91	Electrophoretic Deposition of Salinized Organic Molecules Inducing Desirable Intermolecular Packing Style for Improving Sandwiched Device Electrical Performance. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26249-26257.	3.1	5
92	Rational Modification of Small Molecules with High Device Reproducibility Induced by Improved Interfacial Contact through Intermolecular Hydrogen Bonds. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37973-37980.	8.0	4
93	Solvent Vapor Annealing Upgraded Orderly Intermolecular Stacking and Crystallinity to Enhance Memory Device Performance. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2493-2498.	3.3	4
94	Construction of polymer materials with specific responses to violet and green lights and their potential applications in an artificial visual memory system. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1653-1659.	5.5	4
95	Solvent Vapor Annealing Guides Molecules to Form a Desired Stacking Mode According to the Characteristics of the Molecular Structure. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18868-18876.	3.1	2
96	Layer-by-Layer Assembly of Monolayer Films Precisely Controlled by LB Technology to Realize Low Energy Consumption and High Stability Ternary Data Storage Devices. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3951-3956.	3.3	2