

# Hai-Dong Yu

## List of Publications by Year in descending order

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56  
papers

2,831  
citations

201674

27  
h-index

175258

52  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3680  
citing authors

#	ARTICLE	IF	CITATIONS
1	A General Low-Temperature Route for Large-Scale Fabrication of Highly Oriented ZnO Nanorod/Nanotube Arrays. <i>Journal of the American Chemical Society</i> , 2005, 127, 2378-2379.	13.7	479
2	All Paper-Based Flexible and Wearable Piezoresistive Pressure Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25034-25042.	8.0	240
3	High-Performance Foam-Shaped Strain Sensor Based on Carbon Nanotubes and Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene for the Monitoring of Human Activities. <i>ACS Nano</i> , 2021, 15, 9690-9700.	14.6	191
4	Chemical routes to top-down nanofabrication. <i>Chemical Society Reviews</i> , 2013, 42, 6006.	38.1	167
5	Morphosynthesis and Ornamentation of 3D Dendritic Nanoarchitectures. <i>Chemistry of Materials</i> , 2005, 17, 332-336.	6.7	159
6	Flexible, transparent nanocellulose paper-based perovskite solar cells. <i>Npj Flexible Electronics</i> , 2019, 3, .	10.7	117
7	Fish Gelatin Based Triboelectric Nanogenerator for Harvesting Biomechanical Energy and Self-Powered Sensing of Human Physiological Signals. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 16442-16450.	8.0	100
8	Sustainable and Transparent Fish Gelatin Films for Flexible Electroluminescent Devices. <i>ACS Nano</i> , 2020, 14, 3876-3884.	14.6	86
9	Top-Down Solid-Phase Fabrication of Nanoporous Cadmium Oxide Architectures. <i>Journal of the American Chemical Society</i> , 2007, 129, 2333-2337.	13.7	78
10	A Highly Efficient Red Metal-free Organic Phosphor for Time-Resolved Luminescence Imaging and Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18103-18110.	8.0	74
11	3D vertical-flow paper-based device for simultaneous detection of multiple cancer biomarkers by fluorescent immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127239.	7.8	70
12	Near-Room-Temperature Production of Diameter-Tunable ZnO Nanorod Arrays through Natural Oxidation of Zinc Metal. <i>Chemistry - A European Journal</i> , 2005, 11, 3149-3154.	3.3	67
13	Signal-Enhanced Detection of Multiplexed Cardiac Biomarkers by a Paper-Based Fluorogenic Immunodevice Integrated with Zinc Oxide Nanowires. <i>Analytical Chemistry</i> , 2019, 91, 9300-9307.	6.5	60
14	Lignin-Incorporated Nanogel Serving As an Antioxidant Biomaterial for Wound Healing. <i>ACS Applied Bio Materials</i> , 2021, 4, 3-13.	4.6	58
15	Bioinspired fabrication of 3D hierarchical porous nanomicrostructures of calcium carbonate for bone regeneration. <i>Chemical Communications</i> , 2010, 46, 6578.	4.1	53
16	Paper-based fluorogenic devices for in vitro diagnostics. <i>Biosensors and Bioelectronics</i> , 2018, 102, 256-266.	10.1	50
17	Paper-based fluorescent immunoassay for highly sensitive and selective detection of norfloxacin in milk at picogram level. <i>Talanta</i> , 2019, 195, 333-338.	5.5	46
18	Optical/electrochemical methods for detecting mitochondrial energy metabolism. <i>Chemical Society Reviews</i> , 2022, 51, 71-127.	38.1	45

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19	Ammonium Intercalation Induced Expanded 1T-Rich Molybdenum Diselenides for Improved Lithium Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 17459-17466.	8.0	42
20	Fully sustainable and high-performance fish gelatin-based triboelectric nanogenerator for wearable movement sensing and human-machine interaction. <i>Nano Energy</i> , 2021, 89, 106329.	16.0	41
21	Smart band-aid: Multifunctional and wearable electronic device for self-powered motion monitoring and human-machine interaction. <i>Nano Energy</i> , 2022, 92, 106840.	16.0	39
22	Polydopamine Dots-Based Fluorescent Nanoswitch Assay for Reversible Recognition of Glutamic Acid and Al <sup>3+</sup> in Human Serum and Living Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35760-35769.	8.0	37
23	Paper-based sensors for diagnostics, human activity monitoring, food safety and environmental detection. <i>Sensors &amp; Diagnostics</i> , 2022, 1, 312-342.	3.8	32
24	Metal Corrosion for Nanofabrication. <i>Small</i> , 2012, 8, 2621-2635.	10.0	30
25	Recent Development of Gas Sensing Platforms Based on 2D Atomic Crystals. <i>Research</i> , 2021, 2021, 9863038.	5.7	29
26	Flexible organic electrochemical transistors for chemical and biological sensing. <i>Nano Research</i> , 2022, 15, 2433-2464.	10.4	29
27	Development of luminescent nanoswitch for sensing of alkaline phosphatase in human serum based on Al <sup>3+</sup> -PPI interaction and Cu NCs with AIE properties. <i>Analytica Chimica Acta</i> , 2019, 1076, 131-137.	5.4	28
28	Catalysis-based specific detection and inhibition of tyrosinase and their application. <i>Journal of Pharmaceutical Analysis</i> , 2020, 10, 414-425.	5.3	28
29	Embedding Silver Nanowires into a Hydroxypropyl Methyl Cellulose Film for Flexible Electrochromic Devices with High Electromechanical Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1735-1742.	8.0	25
30	A paper-based chemiluminescence immunoassay device for rapid and high-throughput detection of allergen-specific IgE. <i>Analyst</i> , The, 2019, 144, 2584-2593.	3.5	23
31	Aggregation-driven growth of well-oriented ZnO nanorod arrays. <i>Nanotechnology</i> , 2006, 17, 2994-2997.	2.6	22
32	Top-Down Fabrication of Calcite Nanoshoot Arrays by Crystal Dissolution. <i>Advanced Materials</i> , 2010, 22, 3181-3184.	21.0	22
33	Unconventional solution-phase epitaxial growth of organic-inorganic hybrid perovskite nanocrystals on metal sulfide nanosheets. <i>Science China Materials</i> , 2019, 62, 43-53.	6.3	20
34	Design of a nanoswitch for sequentially multi-species assay based on competitive interaction between DNA-templated fluorescent copper nanoparticles, Cr <sup>3+</sup> and pyrophosphate and ALP. <i>Talanta</i> , 2019, 205, 120132.	5.5	19
35	Horseradish peroxidase-triggered direct in situ fluorescent immunoassay platform for sensing cardiac troponin I and SARS-CoV-2 nucleocapsid protein in serum. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113823.	10.1	19
36	Perpendicular Branching in Crystal Growth of 3D Architecture-Tuned Cadmium Hydroxide Arrays: From Oriented Tripods to Faceted Crystals. <i>Advanced Materials</i> , 2008, 20, 2276-2279.	21.0	18

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37	Highly flexible and degradable memory electronics comprised of all-biocompatible materials. <i>Nanoscale</i> , 2021, 13, 724-729.	5.6	17
38	A MXene-functionalized paper-based electrochemical immunosensor for label-free detection of cardiac troponin I. <i>Journal of Semiconductors</i> , 2021, 42, 092601.	3.7	17
39	Benzothiazole-pyrimidine-based BODIPY analogues: promising luminophores with fluorescence sensing and imaging ability and asymmetrization-induced solid-state emission. <i>Dalton Transactions</i> , 2016, 45, 17274-17280.	3.3	16
40	Paper-Based Fluorogenic Device for Detection of Copper Ions in a Biological System. <i>ACS Applied Bio Materials</i> , 2018, 1, 1523-1529.	4.6	14
41	A full-wavelength coverage colorimetric sensor depending on polymer-carbon nanodots from blue to red for visual detection of nitrite via smartphone. <i>Dyes and Pigments</i> , 2021, 191, 109383.	3.7	14
42	Recent progress in the development of sensing systems for in vivo detection of biological hydrogen sulfide. <i>Dyes and Pigments</i> , 2021, 192, 109451.	3.7	14
43	Realizing Ultrahigh Transconductance in Organic Electrochemical Transistor by Co-Doping PEDOT:PSS with Ionic Liquid and Dodecylbenzenesulfonate. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200212.	3.9	14
44	Blue and green emission-transformed fluorescent copolymer: Specific detection of levodopa of anti-Parkinson drug in human serum. <i>Talanta</i> , 2020, 214, 120817.	5.5	13
45	Thinning shell thickness of CuInS <sub>2</sub> @ZnS quantum dots to boost detection sensitivity. <i>Analytica Chimica Acta</i> , 2019, 1047, 124-130.	5.4	12
46	A transparent paper-based platform for multiplexed bioassays by wavelength-dependent absorbance/transmittance. <i>Analyst</i> , 2019, 144, 7157-7161.	3.5	11
47	Fabrication and osteoregenerative application of composition-tunable CaCO <sub>3</sub> /HA composites. <i>Journal of Materials Chemistry</i> , 2011, 21, 4588.	6.7	8
48	Preparation of porosity-controlled calcium carbonate by thermal decomposition of volume content-variable calcium carboxylate derivatives. <i>Chemical Communications</i> , 2013, 49, 4229-4231.	4.1	8
49	Two-component ratiometric sensor for Cu <sup>2+</sup> detection on paper-based device. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6165-6172.	3.7	6
50	Using magnetic levitation for density-based detection of cooking oils. <i>RSC Advances</i> , 2019, 9, 18285-18291.	3.6	6
51	Simultaneously Detecting Monoamine Oxidase A and B in Disease Cell/Tissue Samples Using Paper-Based Devices. <i>ACS Applied Bio Materials</i> , 2021, 4, 1395-1402.	4.6	5
52	Biomass-Templated Fabrication of Metallic Materials for Photocatalytic and Bactericidal Applications. <i>Materials</i> , 2019, 12, 1271.	2.9	4
53	Fluorescence copolymer-based dual-signal monitoring tyrosinase activity and its inhibitor screening via blue-green emission transformation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 246, 119028.	3.9	4
54	Topochemical assembly of levodopa nanoparticles network as a high-performance biosensing platform coupling with $\pi$ - $\pi$ stacking and electrostatic repulsion interactions. <i>Talanta</i> , 2020, 219, 121285.	5.5	3

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55	Introduction to flexible nanomaterials: microscopic mechanisms and macroscopic applications. <i>Nanoscale Advances</i> , 2022, 4, 1716-1717.	4.6	2
56	Surfaceâ€Oxidationâ€Controlled Synthesis of Blue Fluorescence Wavelengthâ€Tunable Miniâ€Size Carbon Nitride Nanosheet and Its Application. <i>ChemistrySelect</i> , 2018, 3, 2229-2234.	1.5	0