Hai-Feng Ji

List of Publications by Year
in descending order

92 papers	3,422 citations	172457 29 h-index	144013 57 g-index
95 all docs	95 docs citations	95 times ranked	4727 citing authors

#	Article	IF	Citations
1	Cantilever-Based Optical Deflection Assay for Discrimination of DNA Single-Nucleotide Mismatches. Analytical Chemistry, 2001, 73, 1567-1571.	6.5	363
2	Growth of 2D black phosphorus film from chemical vapor deposition. Nanotechnology, 2016, 27, 215602.	2.6	276
3	A search for medications to treat COVID-19 via in silico molecular docking models of the SARS-CoV-2 spike glycoprotein and 3CL protease. Travel Medicine and Infectious Disease, 2020, 35, 101646.	3.0	220
4	Nerve Agents Detection Using a Cu2+/l-Cysteine Bilayer-Coated Microcantilever. Journal of the American Chemical Society, 2003, 125, 1124-1125.	13.7	158
5	Microcantilever biosensors for chemicals and bioorganisms. Analyst, The, 2011, 136, 1539.	3.5	112
6	A novel self-assembled monolayer (SAM) coated microcantilever for low level caesium detection. Chemical Communications, 2000, , 457-458.	4.1	109
7	Nonequilibrium Plasmaâ€Activated Antimicrobial Solutions are Broadâ€Spectrum and Retain their Efficacies for Extended Period of Time. Plasma Processes and Polymers, 2013, 10, 544-555.	3.0	107
8	Detection of Hg2+Using Microcantilever Sensors. Analytical Chemistry, 2002, 74, 3611-3615.	6.5	106
9	Detection of CrO42-Using a Hydrogel Swelling Microcantilever Sensor. Analytical Chemistry, 2003, 75, 4773-4777.	6.5	106
10	Organophosphorus hydrolase multilayer modified microcantilevers for organophosphorus detection. Biosensors and Bioelectronics, 2007, 22, 2636-2642.	10.1	94
11	Ultrasensitive Detection of CrO42-Using a Microcantilever Sensor. Analytical Chemistry, 2001, 73, 1572-1576.	6.5	92
12	Study of the near-neutral pH-sensitivity of chitosan/gelatin hydrogels by turbidimetry and microcantilever deflection. Biotechnology and Bioengineering, 2006, 95, 333-341.	3.3	71
13	Solvent Effect on the Self-Assembled Structure of an Amphiphilic Perylene Diimide Derivative. Journal of Physical Chemistry B, 2008, 112, 7196-7202.	2.6	71
14	In situ detection of calcium ions with chemically modified microcantilevers. Biosensors and Bioelectronics, 2002, 17, 337-343.	10.1	67
15	Detection of Pb²⁺ Using a Hydrogel Swelling Microcantilever Sensor. Analytical Sciences, 2004, 20, 9-11.	1.6	64
16	Chemical Changes in Nonthermal Plasma-Treated N-Acetylcysteine (NAC) Solution and TheirContribution to Bacterial Inactivation. Scientific Reports, 2016, 6, 20365.	3.3	62
17	Photoactivated Polymeric Bilayer Actuators Fabricated via 3D Printing. ACS Applied Materials & Interfaces, 2018, 10, 27308-27315.	8.0	58
18	Ultraâ€Long Crystalline Red Phosphorus Nanowires from Amorphous Red Phosphorus Thin Films. Angewandte Chemie - International Edition, 2016, 55, 11829-11833.	13.8	56

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19	Rapid visual detection of phytase gene in genetically modified maize using loop-mediated isothermal amplification method. Food Chemistry, 2014, 156, 184-189.	8.2	55
20	Glucose Oxidase Multilayer Modified Microcantilevers for Glucose Measurement. Analytical Chemistry, 2005, 77, 6197-6204.	6.5	54
21	Self-Assembly of Perylenediimide and Naphthalenediimide Nanostructures on Glass Substrates through Deposition from the Gas Phase. Journal of the American Chemical Society, 2008, 130, 10056-10057.	13.7	53
22	An Anti E. Coli O157:H7 Antibody-Immobilized Microcantilever for the Detection of Escherichia Coli (E.) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	52
23	Decomposition of <scp>l</scp>-Valine under Nonthermal Dielectric Barrier Discharge Plasma. Journal of Physical Chemistry B, 2014, 118, 1612-1620.	2.6	47
24	Microcantilever biosensors based on conformational change of proteins. Analyst, The, 2008, 133, 434.	3.5	46
25	Effects of acidity on the size of polyaniline-poly(sodium 4-styrenesulfonate) composite particles and the stability of corresponding colloids in water. Journal of Colloid and Interface Science, 2012, 381, 11-16.	9.4	39
26	Quartz crystal microbalance based biosensor for rapid and sensitive detection of maize chlorotic mottle virus. Analytical Methods, 2014, 6, 4530-4536.	2.7	38
27	Detection of feline coronavirus using microcantilever sensors. Measurement Science and Technology, 2006, 17, 2964-2968.	2.6	37
28	Hexagonal Organic Nanopillar Array from the Melamineâ^'Cyanuric Acid Complex. Langmuir, 2010, 26, 4620-4622.	3.5	35
29	Approaches to Increasing Surface Stress for Improving Signal-to-Noise Ratio of Microcantilever Sensors. Analytical Chemistry, 2010, 82, 1634-1642.	6.5	34
30	Photon-driven nanomechanical cyclic motion. Chemical Communications, 2004, , 2532.	4.1	31
31	High Electron Mobility of Amorphous Red Phosphorus Thin Films. Angewandte Chemie - International Edition, 2019, 58, 6766-6771.	13.8	29
32	Bacterial Biofilm Growth on 3D-Printed Materials. Frontiers in Microbiology, 2021, 12, 646303.	3.5	29
33	Mechanical and electronic approaches to improve the sensitivity of microcantilever sensors. Acta Mechanica Sinica/Lixue Xuebao, 2009, 25, 1-12.	3.4	26
34	Computational View toward the Inhibition of SARS-CoV-2 Spike Glycoprotein and the 3CL Protease. Computation, 2020, 8, 53.	2.0	26
35	Highly sensitive and selective detection of beryllium ions using a microcantilever modified with benzo-9-crown-3 doped hydrogel. Analyst, The, 2012, 137, 1220.	3.5	25
36	Triphenylene Nano/Microwires for Sensing Nitroaromatics. Journal of Physical Chemistry C, 2011, 115, 20091-20096.	3.1	24

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37	Applications of Highly Stretchable and Tough Hydrogels. Polymers, 2019, 11, 1773.	4.5	24
38	Design and Fabrication of Highly Stretchable and Tough Hydrogels. Polymer Reviews, 2020, 60, 420-441.	10.9	24
39	Microcantilever (MCL) Biosensing. Current Analytical Chemistry, 2006, 2, 297-307.	1.2	23
40	Moisture measurement using porous aluminum oxide coated microcantilevers. Sensors and Actuators B: Chemical, 2008, 134, 390-395.	7.8	23
41	New fluorescent probes for the detection of mixed sodium and potassium metal ions. Chemical Communications, 2001, , 2092-2093.	4.1	22
42	Fibrous Phosphorus Quantum Dots for Cell Imaging. ACS Applied Nano Materials, 2020, 3, 752-759.	5.0	22
43	Mechanism of Ampicillin Degradation by Non-Thermal Plasma Treatment with FE-DBD. Plasma, 2018, 1, 1-11.	1.8	21
44	1,6-Hexanedithiol monolayer as a receptor for specific recognition of alkylmercury. Analyst, The, 2005, 130, 1577.	3.5	19
45	A calixarene based fluorescent Sr2+ and Ca2+ probe. Organic and Biomolecular Chemistry, 2006, 4, 770.	2.8	19
46	Microcantilevers Modified by Horseradish Peroxidase Intercalated Nano-Assembly for Hydrogen Peroxide Detection. Analytical Sciences, 2006, 22, 205-208.	1.6	18
47	Phenylethynyl and Phenol End-Capping Studies of Polybiphenyloxydiphenylsilanes for Cross-Linking and Enhanced Thermal Stability. Macromolecules, 2011, 44, 4107-4115.	4.8	17
48	Decomposition of sugars under non-thermal dielectric barrier discharge plasma. Clinical Plasma Medicine, 2014, 2, 56-63.	3.2	16
49	Highly Selective Sensing of Nitroaromatics Using Nanomaterials of Ellagic Acid. Journal of Physical Chemistry C, 2012, 116, 4442-4448.	3.1	15
50	Highly stretchable gelatinâ€polyacrylamide hydrogel for potential transdermal drug release. Nano Select, 2021, 2, 107-115.	3.7	15
51	Microcantilevers modified by specific peptide for selective detection of trimethylamine. Biosensors and Bioelectronics, 2011, 30, 140-144.	10.1	14
52	Metal organic framework (MOF) micro/nanopillars. CrystEngComm, 2014, 16, 2885-2888.	2.6	14
53	Photochromic dye-sensitized solar cells. AIMS Materials Science, 2015, 2, 503-509.	1.4	14
54	Novel Diacetylinic Aryloxysilane Polymers: A New Thermally Cross-Linkable High Temperature Polymer System. Macromolecules, 2013, 46, 4370-4377.	4.8	13

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55	Metal Organic Framework Micro/Nanopillars of Cu(BTC)Â·3H2O and Zn(ADC)Â·DMSO. Nanomaterials, 2015, 5, 565-576.	4.1	12
56	Ultra-Long Crystalline Red Phosphorus Nanowires from Amorphous Red Phosphorus Thin Films. Angewandte Chemie, 2016, 128, 12008-12012.	2.0	12
57	Improved Surface Modification Approach for Micromechanical Biosensors. Langmuir, 2008, 24, 345-349.	3.5	9
58	A first principles study of interactions of CO2 with surfaces of a Cu(benzeneâ€1,3,5â€tricarboxylate) metal organic framework. Applied Surface Science, 2016, 385, 578-586.	6.1	9
59	The Development of a Pipeline for the Identification and Validation of Small-Molecule RelA Inhibitors for Use as Anti-Biofilm Drugs. Microorganisms, 2020, 8, 1310.	3.6	9
60	Injectable and moldable hydrogels for use in sensitive and wide range strain sensing applications. Biopolymers, 2020, 111, e23355.	2.4	9
61	Experimental and Theoretical Aspects of Glucose Measurement Using a Microcantilever Modified by Enzyme-Containing Polyacrylamide. Diabetes Technology and Therapeutics, 2005, 7, 986-995.	4.4	8
62	Ultrasensitive Detection of Cu2+ Using a Microcantilever Sensor Modified with L-Cysteine Self-Assembled Monolayer. Applied Biochemistry and Biotechnology, 2017, 183, 555-565.	2.9	8
63	Suitability of N-propanoic acid spiropyrans and spirooxazines for use as sensitizing dyes in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2017, 19, 2981-2989.	2.8	8
64	Morphologies and optical properties of nanostructures self-assembled from asymmetrical, amphiphilic perylene derivatives. Journal of Materials Science, 2011, 46, 188-195.	3.7	7
65	Synthesis of a Re-usable Cellobiase Enzyme Catalyst through In situ Encapsulation in Nonsurfactant Templated Solâ€"Gel Mesoporous Silica. Topics in Catalysis, 2012, 55, 1247-1253.	2.8	6
66	Methane Incorporation Into Liquid Fuel by Nonequilibrium Plasma Discharges. IEEE Transactions on Plasma Science, 2017, 45, 683-690.	1.3	6
67	A beryllium-selective microcantilever sensor modified with benzo-9-crown-3 functionalized polymer brushes. Analytical Methods, 2017, 9, 3356-3360.	2.7	6
68	Biomolecule Response to Nonthermal Plasma. Plasma Medicine, 2017, 7, 427-443.	0.6	6
69	Polymerization of Solid-State 2,2â€²-Bithiophene Thin Film or Doped in Cellulose Paper Using DBD Plasma and Its Applications in Paper-Based Electronics. ACS Applied Polymer Materials, 2020, 2, 1518-1527.	4.4	6
70	Structure-based virtual screening, in silico docking, ADME properties prediction and molecular dynamics studies for the identification of potential inhibitors against SARS-CoV-2 Mpro. Molecular Diversity, 2022, 26, 1645-1661.	3.9	6
71	Electric field-directed assembly of gold and platinum nanowires from an electrolysis process. Electrochemistry Communications, 2008, 10, 222-224.	4.7	5
72	Ultrahydrophobicity of Polydimethylsiloxanes-Based Multilayered Thin Films. Journal of Nanotechnology, 2009, 2009, 1-8.	3.4	4

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73	Self-Assembling Organic Micro-/Nano-Pillars on Gold and Glass Surfaces. Nanomaterials, 2014, 4, 768-777.	4.1	4
74	High Electron Mobility of Amorphous Red Phosphorus Thin Films. Angewandte Chemie, 2019, 131, 6838-6843.	2.0	4
75	A colorimetric method for comparison of oxidative strength of DBD plasma. Sensors and Actuators Reports, 2019, 1, 100001.	4.4	4
76	Improving Photocatalytic Performance Using Nanopillars and Micropillars. Materials, 2021, 14, 299.	2.9	4
77	Functional layer-by-layer multilayer films for ion recognition. Analytical Methods, 2013, 5, 3454.	2.7	3
78	Polymerization of D-Ribose in Dielectric Barrier Discharge Plasma. Plasma, 2018, 1, 144-149.	1.8	3
79	Stable Copper Phosphorus Iodide (Cu₂P₃I₂) Nano/Microwire Photodetectors. ChemNanoMat, 2018, 4, 1083-1087.	2.8	3
80	Polymerization of Solid-State Aminophenol to Polyaniline Derivative Using a Dielectric Barrier Discharge Plasma. Plasma, 2020, 3, 187-195.	1.8	3
81	Environmental Monitoring Using Microcantilever Sensors. ACS Symposium Series, 2005, , 284-305.	0.5	2
82	Reply: High Proton Conductivity of Water Channels in a Highly Ordered Nanowire. Angewandte Chemie - International Edition, 2012, 51, 10457-10458.	13.8	2
83	Self-Assembled Microwires of Terephthalic Acid and Melamine. Crystals, 2017, 7, 236.	2.2	2
84	Introduction and Characterization of Phosphorus Nanomaterials. ACS Symposium Series, 2019, , 27-45.	0.5	2
85	Fabrication and applications of self-assembled nanopillars. AIMS Materials Science, 2017, 4, 905-919.	1.4	2
86	Stable Cu2P3I2 and Ag2P3I2 Single-Wire and Thin Film Devices for Humidity Sensing. Micro, 2022, 2, 183-190.	2.0	2
87	Bulk Polymerization of PEGDA in Spruce Wood Using a DBD Plasma-Initiated Process to Improve the Flexural Strength of the Woodâ€“Polymer Composite. Plasma, 2022, 5, 146-153.	1.8	1
88	Ultraviolet photoelectron spectroscopy of pristine poly (sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (poly[2-(3-thienyl)-ethoxy (PTCDI) nanobelts. Materials Research Society Symposia Proceedings, 2009, 1212, 1.	0.1	0
89	Crystalline Microwires of Rubrene for Chemical Sensing. Analytical Chemistry Letters, 2011, 1, 158-163.	1.0	0
90	Single Mesowire Transistor From Perylene Tetracarboxylic Diimide. IEEE Nanotechnology Magazine, 2012, 11, 448-450.	2.0	0

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91	Reply: High Proton Conductivity of Water Channels in a Highly Ordered Nanowire. Angewandte Chemie, 2012, 124, 10607-10608.	2.0	0
92	Synthesis of A Silver Nanowire Array on Cu-BTC MOF Micropillars. Sci, 2019, 1, 4.	3.0	0