Nako Nakatsuka

List of Publications by Year
in descending order

29	1,694	471509 17	501196 28
papers	citations	h-index	g-index

30	30	30	2123
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aptamerâ€“field-effect transistors overcome Debye length limitations for small-molecule sensing. Science, 2018, 362, 319-324.	12.6	570
2	Fabrication of High-Performance Ultrathin In₂O₃ Film Field-Effect Transistors and Biosensors Using Chemical Lift-Off Lithography. ACS Nano, 2015, 9, 4572-4582.	14.6	156
3	Nonspecific Bindingâ€”Fundamental Concepts and Consequences for Biosensing Applications. Chemical Reviews, 2021, 121, 8095-8160.	47.7	113
4	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. ACS Nano, 2019, 13, 3830-3838.	14.6	105
5	High-Affinity Nucleic-Acid-Based Receptors for Steroids. ACS Chemical Biology, 2017, 12, 3103-3112.	3.4	82
6	Analyzing Spin Selectivity in DNA-Mediated Charge Transfer via Fluorescence Microscopy. ACS Nano, 2017, 11, 7516-7526.	14.6	82
7	Implantable aptamerâ€“field-effect transistor neuroprobes for in vivo neurotransmitter monitoring. Science Advances, 2021, 7, eabj7422.	10.3	68
8	Polyserotonin Nanoparticles as Multifunctional Materials for Biomedical Applications. ACS Nano, 2018, 12, 4761-4774.	14.6	57
9	Phenylalanine Monitoring via Aptamer-Field-Effect Transistor Sensors. ACS Sensors, 2019, 4, 3308-3317.	7.8	57
10	Aptamer Conformational Change Enables Serotonin Biosensing with Nanopipettes. Analytical Chemistry, 2021, 93, 4033-4041.	6.5	52
11	Electrolyte-gated carbon nanotube field-effect transistor-based biosensors: Principles and applications. Applied Physics Reviews, 2021, 8, 041325.	11.3	49
12	Detecting DNA and RNA and Differentiating Single-Nucleotide Variations via Field-Effect Transistors. Nano Letters, 2020, 20, 5982-5990.	9.1	47
13	Controlled DNA Patterning by Chemical Lift-Off Lithography: Matrix Matters. ACS Nano, 2015, 9, 11439-11454.	14.6	42
14	Divalent Cation Dependence Enhances Dopamine Aptamer Biosensing. ACS Applied Materials & Interfaces, 2021, 13, 9425-9435.	8.0	42
15	Differentiating Siblings: The Case of Dopamine and Norepinephrine. ACS Chemical Neuroscience, 2017, 8, 218-220.	3.5	29
16	Aptamer Recognition of Multiplexed Small-Molecule-Functionalized Substrates. ACS Applied Materials & Interfaces, 2018, 10, 23490-23500.	8.0	28
17	Advancing Biocapture Substrates via Chemical Lift-Off Lithography. Chemistry of Materials, 2017, 29, 6829-6839.	6.7	24
18	Sensing serotonin secreted from human serotonergic neurons using aptamer-modified nanopipettes. Molecular Psychiatry, 2021, 26, 2753-2763.	7.9	19

#	Article	IF	Citations
19	Small-Molecule Patterning via Prefunctionalized Alkanethiols. Chemistry of Materials, 2018, 30, 4017-4030.	6.7	14
20	Self-assembling peptide assemblies bound to ZnS nanoparticles and their interactions with mammalian cells. Colloids and Surfaces B: Biointerfaces, 2013, 103, 405-415.	5.0	12
21	Aptamer-modified biosensors to visualize neurotransmitter flux. Journal of Neuroscience Methods, 2022, 365, 109386.	2.5	10
22	Growth and Properties of CdSe Nanoparticles on Ellagic Acid Biotemplates for Photodegradation Applications. Materials Express, 2012, 2, 335-343.	0.5	8
23	Biomimetic growth of gallic acidâ€“ZnO hybrid assemblies and their applications. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	6
24	Neurochips Enable Nanoscale Devices for High-Resolution In Vivo Neurotransmitter Sensing. Neuropsychopharmacology, 2016, 41, 378-379.	5.4	5
25	KAT Ligation for Rapid and Facile Covalent Attachment of Biomolecules to Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 29113-29121.	8.0	5
26	Fabrication of Collagenâ€“Elastin-Bound Peptide Microtubes for Mammalian Cell Attachment. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 1843-1862.	3.5	4
27	Biomimetic Formation of Pd and Au-Pd Nanocomposites and their Catalytic Applications. Soft Materials, 2013, 11, 403-413.	1.7	4
28	Formation of hyaluronic acidâ€“ellagic acid microfiber hybrid hydrogels and their applications. Colloid and Polymer Science, 2013, 291, 515-525.	2.1	2
29	Formation of Calcium Phosphate-Ellagic Acid Composites by Layer by Layer Assembly for Cellular Attachment to Osteoblasts. Journal of Biomimetics, Biomaterials, and Tissue Engineering, 0, 13, 1-17.	0.7	0