Laurence Ressier

List of Publications by Year
in descending order

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52 papers	1,294 citations	430874 18 h-index	361022 35 g-index
52 all docs	52 docs citations	52 times ranked	1805 citing authors

#	Article	IF	Citations
1	High-Sensitivity Strain Gauge Based on a Single Wire of Gold Nanoparticles Fabricated by Stop-and-Go Convective Self-Assembly. ACS Nano, 2011, 5, 7137-7143.	14.6	146
2	Monolayered Wires of Gold Colloidal Nanoparticles for High-Sensitivity Strain Sensing. Journal of Physical Chemistry C, 2011, 115, 14494-14499.	3.1	104
3	Nanoparticle-Based Strain Gauges Fabricated by Convective Self Assembly: Strain Sensitivity and Hysteresis with Respect to Nanoparticle Sizes. Journal of Physical Chemistry C, 2013, 117, 1935-1940.	3.1	90
4	3D assembly of upconverting NaYF4 nanocrystals by AFM nanoxerography: creation of anti-counterfeiting microtags. Nanoscale, 2013, 5, 9587.	5.6	84
5	Tunable Conductive Nanoparticle Wire Arrays Fabricated by Convective Self-Assembly on Nonpatterned Substrates. ACS Nano, 2010, 4, 7275-7282.	14.6	68
6	Electron transport in gold colloidal nanoparticle-based strain gauges. Nanotechnology, 2013, 24, 095701.	2.6	67
7	Assembly of live micro-organisms on microstructured PDMS stamps by convective/capillary deposition for AFM bio-experiments. Nanotechnology, 2011, 22, 395102.	2.6	59
8	Electrostatic nanopatterning of PMMA by AFM charge writing for directed nano-assembly. Nanotechnology, 2008, 19, 135301.	2.6	54
9	Coulomb Force Directed Single and Binary Assembly of Nanoparticles from Aqueous Dispersions by AFM Nanoxerography. ACS Nano, 2011, 5, 4228-4235.	14.6	50
10	Numerical simulations for a quantitative analysis of AFM electrostatic nanopatterning on PMMA by Kelvin force microscopy. Nanotechnology, 2010, 21, 225706.	2.6	48
11	Control of the catalytic properties and directed assembly on surfaces of MADIX/RAFT polymer-coated gold nanoparticles by tuning polymeric shell charge. Journal of Materials Chemistry, 2010, 20, 9433.	6.7	37
12	Towards wireless highly sensitive capacitive strain sensors based on gold colloidal nanoparticles. Nanoscale, 2018, 10, 10479-10487.	5.6	27
13	Microarrays of gold nanoparticle clusters fabricated by Stop&Go convective self-assembly for SERS-based sensor chips. Nanoscale, 2012, 4, 7870-7877.	5.6	25
14	Quantification of the electrostatic forces involved in the directed assembly of colloidal nanoparticles by AFM nanoxerography. Nanotechnology, 2011, 22, 325603.	2.6	24
15	High-throughput fabrication of anti-counterfeiting colloid-based photoluminescent microtags using electrical nanoimprint lithography. Nanotechnology, 2014, 25, 345302.	2.6	24
16	How to Control AFM Nanoxerography for the Templated Monolayered Assembly of 2 nm Colloidal Gold Nanoparticles. IEEE Nanotechnology Magazine, 2009, 8, 487-491.	2.0	22
17	Atomic force microscopy study of micrometric pattern replica by hot embossing lithography. Microelectronic Engineering, 2004, 71, 272-276.	2.4	20
18	Flexible transparent sensors from reduced graphene oxide micro-stripes fabricated by convective self-assembly. Carbon, 2017, 113, 361-370.	10.3	20

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19	Small angle X-ray scattering coupled with in situ electromechanical probing of nanoparticle-based resistive strain gauges. Nanoscale, 2014, 6, 15107-15116.	5.6	19
20	Electrical nano-imprint lithography. Nanotechnology, 2012, 23, 255302.	2.6	18
21	Surface-enhanced spectroscopy on plasmonic oligomers assembled by AFM nanoxerography. Nanoscale, 2015, 7, 2009-2022.	5.6	17
22	Electro-mechanical sensing in freestanding monolayered gold nanoparticle membranes. Nanoscale, 2016, 8, 11363-11370.	5.6	17
23	Directed Assembly of Living Pseudomonas aeruginosa Bacteria on PEI Patterns Generated by Nanoxerography for Statistical AFM Bioexperiments. ACS Applied Materials & Interfaces, 2014, 6, 21230-21236.	8.0	15
24	A transparent flexible z-axis sensitive multi-touch panel based on colloidal ITO nanocrystals. Nanoscale, 2015, 7, 12631-12640.	5.6	15
25	Directed Assembly of Single Colloidal Gold Nanowires by AFM Nanoxerography. Langmuir, 2015, 31, 4106-4112.	3.5	15
26	Combinatorial Particle Patterning by Nanoxerography. Advanced Functional Materials, 2018, 28, 1801075.	14.9	15
27	Synthesis of hybrid colloidal nanoparticles for a generic approach to 3D electrostatic directed assembly: Application to anti-counterfeiting. Journal of Colloid and Interface Science, 2021, 582, 1243-1250.	9.4	15
28	Control of micro- and nanopatterns of octadecyltrimethoxysilane monolayers using nanoimprint lithography and atmospheric chemical vapor deposition. Journal of Vacuum Science & Technology B, 2007, 25, 17.	1.3	13
29	99% random telegraph signal-like noise in gold nanoparticle Î¼-stripes. Nanotechnology, 2009, 20, 355303.	2.6	13
30	Single-Step Binary Electrostatic Directed Assembly of Active Nanogels for Smart Concentration-Dependent Encryption. Langmuir, 2018, 34, 1557-1563.	3.5	13
31	Fabrication of planar cobalt electrodes separated by a sub-10nm gap using high resolution electron beam lithography with negative PMMA. Ultramicroscopy, 2007, 107, 985-988.	1.9	12
32	Dynamics of Dielectrophoretic-Force-Directed Assembly of NaYF₄ Colloidal Nanocrystals into Tunable Multilayered Micropatterns. Journal of Physical Chemistry Letters, 2014, 5, 2988-2993.	4.6	12
33	Plasmonic photo-current in freestanding monolayered gold nanoparticle membranes. Nanoscale, 2016, 8, 16162-16167.	5.6	12
34	Combining Convective/Capillary Deposition and AFM Oxidation Lithography for Close-Packed Directed Assembly of Colloids. Langmuir, 2008, 24, 13254-13257.	3.5	10
35	Electron transport within transparent assemblies of tin-doped indium oxide colloidal nanocrystals. Nanotechnology, 2015, 26, 335702.	2.6	10
36	Influence of the Humidity on Nanoparticle-Based Resistive Strain Gauges. Journal of Physical Chemistry C, 2016, 120, 5848-5854.	3.1	10

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37	Tunable Pyramidal Assemblies of Nanoparticles by Convective/Capillary Deposition on Hydrophilic Patterns Made by AFM Oxidation Lithography. Langmuir, 2010, 26, 4631-4634.	3.5	8
38	Electrostatic Directed Assembly of Colloidal Microparticles Assisted by Convective Flow. Journal of Physical Chemistry C, 2019, 123, 783-790.	3.1	8
39	â€œAll in Oneâ€•Epoxy-Based Microfluidic Chips at Your Fingertips. ACS Applied Polymer Materials, 2021, 3, 801-810.	4.4	8
40	Chemical patterns of octadecyltrimethoxysilane monolayers for the selective deposition of nanoparticles on silicon substrate. Ultramicroscopy, 2007, 107, 980-984.	1.9	7
41	Interactive Nanogel Marking at the Microscale for Security and Traceability Applications. Advanced Materials Technologies, 2018, 3, 1700244.	5.8	6
42	Smartphone-Identifiable Photoluminescent Nanoparticle-Based Multilevel Secured Tags by Electrical Microcontact Printing. ACS Applied Nano Materials, 2018, 1, 5936-5943.	5.0	6
43	Versatile, rapid and robust nano-positioning of single-photon emitters by AFM-nanoxerography. Nanotechnology, 2022, 33, 215301.	2.6	6
44	Plasmonic photocapacitance of self-assembled gold colloidal nanoparticle monolayers. Materials Today Nano, 2018, 4, 38-45.	4.6	5
45	Elaboration of 1Â Î¼m square arrays of octadecyltrimethoxysilane monolayers on SiO2 /Si by combining chemical vapour deposition and nano-imprint lithography. Superlattices and Microstructures, 2004, 36, 227-233.	3.1	4
46	Selective deposition of gold nanoparticles using Van der Waals interactions. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 276-278.	0.8	4
47	Stimuli-responsive gold nanohybrids: chemical synthesis and electrostatic directed assembly on surfaces by AFM nanoxerography. Gold Bulletin, 2013, 46, 267-274.	2.4	3
48	Micropatterning of Adhesive Epoxy with Embedded Colloidal Quantum Dots for Authentication and Tracing. ACS Applied Nano Materials, 2021, 4, 3537-3544.	5.0	3
49	Co nanoelectrodes for the study of spin dependent transport through nano-objects. Superlattices and Microstructures, 2004, 36, 271-279.	3.1	2
50	Fabrication of nanodevices for magneto-transport measurements through nanoparticles. Microelectronic Engineering, 2004, 73-74, 627-631.	2.4	2
51	Tunneling mechanism and contact mechanics of colloidal nanoparticle assemblies. Nanotechnology, 2016, 27, 475502.	2.6	2
52	Effect of film thickness on the dielectric properties and charge storage in PMMA thin films. , 2013, , .		0