Chang Young Lee

List of Publications by Year
in descending order

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58 papers	4,425 citations	186209 28 h-index	155592 55 g-index
58 all docs	58 docs citations	58 times ranked	6500 citing authors

#	Article	IF	Citations
1	Extraction and Upconcentration of Adsorbates from Precisely Defined Area for Quantitative MALDI Mass Spectrometry Imaging. Methods in Molecular Biology, 2022, 2437, 159-169.	0.4	0
2	Dual determination of nitrite and iron by a single greener sequential injection spectrophotometric system employing a simple single aqueous extract from Areca catechu Linn. serving as a natural reagent. RSC Advances, 2022, 12, 20110-20121.	1.7	3
3	Experimental test of Babinet's principle in matter-wave diffraction. Physical Chemistry Chemical Physics, 2021, 23, 8030-8036.	1.3	0
4	Smart contact lens and transparent heat patch for remote monitoring and therapy of chronic ocular surface inflammation using mobiles. Science Advances, 2021, 7, .	4.7	71
5	Superhydrophobic and Self-Sterilizing Surgical Masks Spray-Coated with Carbon Nanotubes. ACS Applied Nano Materials, 2021, 4, 8491-8499.	2.4	40
6	Aqueous Microlenses for Localized Collection and Enhanced Raman Spectroscopy of Gaseous Molecules. Advanced Optical Materials, 2021, 9, 2101209.	3.6	3
7	Alkalide-Assisted Direct Electron Injection for the Noninvasive n-Type Doping of Graphene. ACS Applied Materials & Interfaces, 2021, 13, 1270-1276.	4.0	4
8	Hygroscopic Micro/Nanolenses along Carbon Nanotube Ion Channels. Nano Letters, 2020, 20, 812-819.	4.5	3
9	Graphene-Based Gas Sensors with High Sensitivity and Minimal Sensor-to-Sensor Variation. ACS Applied Nano Materials, 2020, 3, 2257-2265.	2.4	97
10	Compartmentalized Arrays of Matrix Droplets for Quantitative Mass Spectrometry Imaging of Adsorbed Peptides. Analytical Chemistry, 2020, 92, 8715-8721.	3.2	7
11	Packaging vertically aligned carbon nanotubes into a heat-shrink tubing for efficient removal of phenolic pollutants. RSC Advances, 2019, 9, 22205-22210.	1.7	3
12	Matter-Wave Diffraction from a Periodic Array of Half Planes. Physical Review Letters, 2019, 122, 040401.	2.9	5
13	Highâ€Yield Fabrication, Activation, and Characterization of Carbon Nanotube Ion Channels by Repeated Voltageâ€Ramping of Membraneâ€Capillary Assembly. Advanced Functional Materials, 2019, 29, 1900421.	7.8	5
14	Three-Dimensional, High-Resolution Printing of Carbon Nanotube/Liquid Metal Composites with Mechanical and Electrical Reinforcement. Nano Letters, 2019, 19, 4866-4872.	4.5	127
15	Graphene chemiresistors modified with functionalized triphenylene for highly sensitive and selective detection of dimethyl methylphosphonate. RSC Advances, 2019, 9, 33976-33980.	1.7	29
16	Plasma functionalization of powdery nanomaterials using porous filter electrode and sample circulation. Applied Surface Science, 2018, 443, 628-634.	3.1	10
17	Concomitant desalting and concentration of neuropeptides on a donut-shaped surface pattern for MALDI mass spectrometry. Chemical Communications, 2018, 54, 5688-5691.	2.2	7
18	Soft, smart contact lenses with integrations of wireless circuits, glucose sensors, and displays. Science Advances, 2018, 4, eaap9841.	4.7	465

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19	Effect of semiconductor polymer backbone structures and side-chain parameters on the facile separation of semiconducting single-walled carbon nanotubes from as-synthesized mixtures. Applied Surface Science, 2018, 429, 264-271.	3.1	11
20	Probing sub-diffraction optical confinement via the polarized Raman spectroscopy of a single-walled carbon nanotube. Nanoscale, 2018, 10, 1030-1037.	2.8	2
21	The Exterior of Single-Walled Carbon Nanotubes as a Millimeter-Long Cation-Preferring Nanochannel. Chemistry of Materials, 2018, 30, 5184-5193.	3.2	6
22	Near-Infrared Fluorescence Modulation of Refolded DNA Aptamer-Functionalized Single-Walled Carbon Nanotubes for Optical Sensing. ACS Applied Nano Materials, 2018, 1, 5327-5336.	2.4	16
23	Experimental measurements in single-nanotube fluidic channels. MRS Bulletin, 2017, 42, 300-305.	1.7	3
24	Wearable smart sensor systems integrated on soft contact lenses for wireless ocular diagnostics. Nature Communications, 2017, 8, 14997.	5.8	633
25	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple Câ”H Bond Activations. Angewandte Chemie, 2017, 129, 5089-5093.	1.6	14
26	An Annulative Synthetic Strategy for Building Triphenylene Frameworks by Multiple Câ”H Bond Activations. Angewandte Chemie - International Edition, 2017, 56, 5007-5011.	7.2	61
27	Direct diversification of unmasked quinazolin-4(3H)-ones through orthogonal reactivity modulation. Chemical Communications, 2017, 53, 10394-10397.	2.2	51
28	Optimal Synthesis of Horizontally Aligned Single-Walled Carbon Nanotubes and Their Biofunctionalization for Biosensing Applications. Journal of Nanomaterials, 2016, 2016, 1-8.	1.5	4
29	A Low-Energy Electron Beam Does Not Damage Single-Walled Carbon Nanotubes and Graphene. Journal of Physical Chemistry Letters, 2016, 7, 4739-4743.	2.1	9
30	A neuron-in-capillary platform for facile collection and mass spectrometric characterization of a secreted neuropeptide. Scientific Reports, 2016, 6, 26940.	1.6	15
31	Self-assembled amyloid fibrils with controllable conformational heterogeneity. Scientific Reports, 2015, 5, 16220.	1.6	32
32	In-situ Synthesis of Carbon Nanotubeâ€“Graphite Electronic Devices and Their Integrations onto Surfaces of Live Plants and Insects. Nano Letters, 2014, 14, 2647-2654.	4.5	98
33	Carbon Nanotube-Patterned Surface-Based Recognition of Carcinoembryonic Antigens in Tumor Cells for Cancer Diagnosis. Journal of Physical Chemistry Letters, 2013, 4, 1126-1130.	2.1	14
34	Stimulation and release from neurons via a dual capillary collection device interfaced to mass spectrometry. Analyst, The, 2013, 138, 6337.	1.7	12
35	Laminar stream of detergents for subcellular neurite damage in a microfluidic device: a simple tool for the study of neuroregeneration. Journal of Neural Engineering, 2013, 10, 036020.	1.8	15
36	Label-free quantitation of peptide release from neurons in a microfluidic device with mass spectrometry imaging. Lab on A Chip, 2012, 12, 2037.	3.1	55

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37	Microfluidic Device for the Selective Chemical Stimulation of Neurons and Characterization of Peptide Release with Mass Spectrometry. Analytical Chemistry, 2012, 84, 9446-9452.	3.2	35
38	Aptamer-functionalized nano-pattern based on carbon nanotube for sensitive, selective protein detection. Journal of Materials Chemistry, 2012, 22, 23348.	6.7	36
39	Dynamics of Simultaneous, Single Ion Transport through Two Single-Walled Carbon Nanotubes: Observation of a Three-State System. Journal of the American Chemical Society, 2011, 133, 203-205.	6.6	43
40	Single-Molecule Recognition of Biomolecular Interaction via Kelvin Probe Force Microscopy. ACS Nano, 2011, 5, 6981-6990.	7.3	59
41	Carbon Nanotubes as Molecular Conduits: Advances and Challenges for Transport through Isolated Sub-2 nm Pores. Journal of Physical Chemistry Letters, 2011, 2, 2892-2896.	2.1	19
42	Evidence for High-Efficiency Exciton Dissociation at Polymer/Single-Walled Carbon Nanotube Interfaces in Planar Nano-heterojunction Photovoltaics. ACS Nano, 2010, 4, 6251-6259.	7.3	82
43	Exciton antennas and concentrators from coreâ€“shell and corrugated carbon nanotube filaments of homogeneous composition. Nature Materials, 2010, 9, 833-839.	13.3	75
44	Coherence Resonance in a Single-Walled Carbon Nanotube Ion Channel. Science, 2010, 329, 1320-1324.	6.0	241
45	The Chemistry of Single-Walled Nanotubes. MRS Bulletin, 2009, 34, 950-961.	1.7	16
46	Connecting Single Molecule Electrical Measurements to Ensemble Spectroscopic Properties for Quantification of Single-Walled Carbon Nanotube Separation. Journal of the American Chemical Society, 2009, 131, 3128-3129.	6.6	37
47	Onâ€Chip Micro Gas Chromatograph Enabled by a Noncovalently Functionalized Singleâ€Walled Carbon Nanotube Sensor Array. Angewandte Chemie - International Edition, 2008, 47, 5018-5021.	7.2	75
48	Amine Basicity (pKb) Controls the Analyte Binding Energy on Single Walled Carbon Nanotube Electronic Sensor Arrays. Journal of the American Chemical Society, 2008, 130, 1766-1773.	6.6	57
49	Covalent Functionalization of Single-Walled Carbon Nanotubes Alters Their Densities Allowing Electronic and Other Types of Separation. Journal of Physical Chemistry C, 2008, 112, 7326-7331.	1.5	91
50	High Mobility, Air-Stable Organic Transistors from Hexabenzocoronene/Carbon Nanotube Bilayers. Journal of Physical Chemistry C, 2007, 111, 17947-17951.	1.5	17
51	Nanometer Positioning, Parallel Alignment, and Placement of Single Anisotropic Nanoparticles Using Hydrodynamic Forces in Cylindrical Droplets. Nano Letters, 2007, 7, 2693-2700.	4.5	60
52	High-resolution electrohydrodynamic jetÂprinting. Nature Materials, 2007, 6, 782-789.	13.3	1,231
53	Charge Transfer from Metallic Single-Walled Carbon Nanotube Sensor Arrays. Journal of Physical Chemistry B, 2006, 110, 11055-11061.	1.2	86
54	The pick-up stick transistor. Solid State Communications, 2005, 135, 638-644.	0.9	5

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55	Pentacene-carbon nanotubes: Semiconducting assemblies for thin-film transistor applications. Applied Physics Letters, 2005, 87, 203510.	1.5	35
56	Carbon nanotubes-semiconductor networks for organic electronics: The pickup stick transistor. Applied Physics Letters, 2005, 86, 182102.	1.5	89
57	Understanding the Dynamics of Signal Transduction for Adsorption of Gases and Vapors on Carbon Nanotube Sensors. Langmuir, 2005, 21, 5192-5196.	1.6	104
58	Design and Integration of a Gas Sensor Module that Indicates the End of Service Life of a Gas Mask Canister. Advanced Materials Technologies, 0, , 2100711.	3.0	2