# Yan Xu

List of Publications by Year
in descending order



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|---|---|---|---|
| 33 papers | 969 citations | 471509 17 h-index | 552781 26 g-index |
| 33 all docs | 33 docs citations | 33 times ranked | 995 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Protein adsorption and cell adhesion on cationic, neutral, and anionic 2-methacryloyloxyethyl phosphorylcholine copolymer surfaces. Biomaterials, 2009, 30, 4930-4938. | 11.4 | 141 |
| 2 | Bonding of glass nanofluidic chips at room temperature by a one-step surface activation using an O2/CF4 plasma treatment. Lab on A Chip, 2013, 13, 1048. | 6.0 | 81 |
| 3 | Low-temperature direct bonding of glass nanofluidic chips using a two-step plasma surface activation process. Analytical and Bioanalytical Chemistry, 2012, 402, 1011-1018. | 3.7 | 80 |
| 4 | Nanofluidics: A New Arena for Materials Science. Advanced Materials, 2018, 30, 1702419. | 21.0 | 78 |
| 5 | Microfluidic flow control on charged phospholipidpolymer interface. Lab on A Chip, 2007, 7, 199-206. | 6.0 | 64 |
| 6 | A Microfluidic Hydrogel Capable of Cell Preservation without Perfusion Culture under Cellâ€Based Assay Conditions. Advanced Materials, 2010, 22, 3017-3021. | 21.0 | 51 |
| 7 | Suppression of Protein Adsorption on a Charged Phospholipid Polymer Interface. Biomacromolecules, 2009, 10, 267-274. | 5.4 | 44 |
| 8 | Phospholipid Polymer Biointerfaces for Lab-on-a-Chip Devices. Annals of Biomedical Engineering, 2010, 38, 1938-1953. | 2.5 | 42 |
| 9 | Microchip-based cellular biochemical systems for practical applications and fundamental research: from microfluidics to nanofluidics. Analytical and Bioanalytical Chemistry, 2012, 402, 99-107. | 3.7 | 41 |
| 10 | Flexible and in situ fabrication of nanochannels with high aspect ratios and nanopillar arrays in fused silica substrates utilizing focused ion beam. RSC Advances, 2015, 5, 50638-50643. | 3.6 | 40 |
| 11 | Soft Matterâ€Regulated Active Nanovalves Locally Selfâ€Assembled in Femtoliter Nanofluidic Channels. Advanced Materials, 2016, 28, 2209-2216. | 21.0 | 38 |
| 12 | An efficient surface modification using 2-methacryloyloxyethyl phosphorylcholine to control cell attachment via photochemical reaction in a microchannel. Lab on A Chip, 2010, 10, 1937. | 6.0 | 37 |
| 13 | Site-specific nanopatterning of functional metallic and molecular arbitrary features in nanofluidic channels. Lab on A Chip, 2015, 15, 1989-1993. | 6.0 | 28 |
| 14 | The biological performance of cell-containing phospholipid polymer hydrogels in bulk and microscale form. Biomaterials, 2010, 31, 8839-8846. | 11.4 | 26 |
| 15 | An Integrated Glass Nanofluidic Device Enabling Inâ€situ Electrokinetic Probing of Water Confined in a Single Nanochannel under Pressureâ€Driven Flow Conditions. Small, 2015, 11, 6165-6171. | 10.0 | 25 |
| 16 | Spontaneous Packaging and Hypothermic Storage of Mammalian Cells with a Cell-Membrane-Mimetic Polymer Hydrogel in a Microchip. ACS Applied Materials & Interfaces, 2015, 7, 23089-23097. | 8.0 | 24 |
| 17 | Regeneration of glass nanofluidic chips through a multiple-step sequential thermochemical decomposition process at high temperatures. Lab on A Chip, 2015, 15, 3856-3861. | 6.0 | 23 |
| 18 | Waveguide-Integrated PdSe<sub>2</sub> Photodetector over a Broad Infrared Wavelength Range. Nano Letters, 2022, 22, 6816-6824. | 9.1 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Nanofluidics for sub-single cellular studies: Nascent progress, critical technologies, and future perspectives. Chinese Chemical Letters, 2022, 33, 2799-2806. | 9.0 | 16 |
| 20 | Fabrication of Ultranarrow Nanochannels with Ultrasmall Nanocomponents in Glass Substrates. Micromachines, 2021, 12, 775. | 2.9 | 13 |
| 21 | Fabrication of Nanoscale Gasâ€“Liquid Interfaces in Hydrophilic/Hydrophobic Nanopatterned Nanofluidic Channels. Nano Letters, 2021, 21, 10555-10561. | 9.1 | 13 |
| 22 | Recent progress and perspectives in applications of 2-methacryloyloxyethyl phosphorylcholine polymers in biodevices at small scales. Journal of Materials Chemistry B, 2022, 10, 2323-2337. | 5.8 | 13 |
| 23 | A biomimetic anti-biofouling coating in nanofluidic channels. Journal of Materials Chemistry B, 2022, 10, 2481-2489. | 5.8 | 8 |
| 24 | Cytocompatible Hydrogel Composed of Phospholipid Polymers for Regulation of Cell Functions. Advances in Polymer Science, 2011, , 141-165. | 0.8 | 7 |
| 25 | Nanofluidics: Nanofluidics: A New Arena for Materials Science (Adv. Mater. 3/2018). Advanced Materials, 2018, 30, 1870019. | 21.0 | 6 |
| 26 | Functional coatings for lab-on-a-chip systems based on phospholipid polymers. , 2021, , 555-595. | | 4 |
| 27 | Some Frontier Technologies for Aptamers in Medical Applications. , 2021, , 375-403. | | 2 |
| 28 | Advances in Nanofluidics. Micromachines, 2021, 12, 427. | 2.9 | 2 |
| 29 | Nano-in-Nano Integration Technology for Advanced Fabrication of Functional Nanofluidic Devices. , 2022, , 111-132. | | 2 |
| 30 | Bridging world-to-nanofluidics interfaces through nano-in-nano integration technology. , 2016, , . | | 1 |
| 31 | Principles and applications of the nano-in-nano integration for multidisciplinary nanofluidics. , 2022, , 407-428. | | 1 |
| 32 | Water vapor containing plasma activation for room-temperature bonding. , 2012, , . | | 0 |
| 33 | On-Chip Cell Preservation by Using a Phospholipid Polymer Hydrogel. Journal of the Japan Society of Colour Material, 2016, 89, 154-158. | 0.1 | 0 |