

Kenneth Phillips

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,005
citations

257101

24
h-index

243296

44
g-index

50
all docs

50
docs citations

50
times ranked

2892
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro and in vivo methods to study bacterial colonization of hydrogel dermal fillers. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1932-1941.	1.6	3
2	High-Throughput Biofilm Assay to Investigate Bacterial Interactions with Surface Topographies. ACS Applied Bio Materials, 2022, 5, 3816-3825.	2.3	7
3	Strategies for antimicrobial peptide coatings on medical devices: a review and regulatory science perspective. Critical Reviews in Biotechnology, 2021, 41, 94-120.	5.1	89
4	How microbes read the map: Effects of implant topography on bacterial adhesion and biofilm formation. Biomaterials, 2021, 268, 120595.	5.7	95
5	An ex vivo model of medical device-mediated bacterial skin translocation. Scientific Reports, 2021, 11, 5746.	1.6	12
6	Biofilm Removal by Reversible Shape Recovery of the Substrate. ACS Applied Materials & Interfaces, 2021, 13, 17174-17182.	4.0	7
7	Microphysiological system design: simplicity is elegance. Current Opinion in Biomedical Engineering, 2020, 13, 94-102.	1.8	16
8	Characterization of Biofilm Formation by Mycobacterium chimaera on Medical Device Materials. Frontiers in Microbiology, 2020, 11, 586657.	1.5	16
9	Moving toward Meaningful Standards for Preclinical Performance Testing of Medical Devices and Combination Products with Antimicrobial Effects. , 2020, , 17-25.		5
10	2018 international consensus meeting on musculoskeletal infection: Summary from the biofilm workgroup and consensus on biofilm related musculoskeletal infections. Journal of Orthopaedic Research, 2019, 37, 1007-1017.	1.2	113
11	Analysis of polyhexamethylene biguanide and alexidine in contact lens solutions using capillary electrophoresis, ultra-performance liquid chromatography and quadrupole time of flight mass spectrometry. Talanta, 2019, 205, 120056.	2.9	2
12	General Assembly, Research Caveats: Proceedings of International Consensus on Orthopedic Infections. Journal of Arthroplasty, 2019, 34, S245-S253.e1.	1.5	7
13	Analytical Chemistry in the Regulatory Science of Medical Devices. Annual Review of Analytical Chemistry, 2018, 11, 307-327.	2.8	5
14	An extraction free modified o-phthalaldehyde assay for quantifying residual protein and microbial biofilms on surfaces. Biofouling, 2018, 34, 925-934.	0.8	7
15	Removal of Staphylococcus aureus from skin using a combination antibiofilm approach. Npj Biofilms and Microbiomes, 2018, 4, 16.	2.9	17
16	Medical devices on chips. Nature Biomedical Engineering, 2017, 1, .	11.6	53
17	U.S. Food and Drug Administration Authors Publish Articles on Dermal Filler Materials, Injections, Methods, and Skin Preparation. Plastic and Reconstructive Surgery, 2017, 140, 632e-633e.	0.7	7
18	Injections through skin colonized with Staphylococcus aureus biofilm introduce contamination despite standard antimicrobial preparation procedures. Scientific Reports, 2017, 7, 45070.	1.6	30

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19	Antimicrobial and Anti-Biofilm Medical Devices: Public Health and Regulatory Science Challenges. , 2017, , 37-65.		14
20	Interactions of Staphylococcus aureus with ultrasoft hydrogel biomaterials. Biomaterials, 2016, 95, 74-85.	5.7	53
21	A contact-lens-on-a-chip companion diagnostic tool for personalized medicine. Lab on A Chip, 2016, 16, 1152-1156.	3.1	18
22	The effects of non-ionic polymeric surfactants on the cleaning of biofouled hydrogel materials. Biofouling, 2015, 31, 689-697.	0.8	9
23	Biofilms, medical devices, and antibiofilm technology: Key messages from a recent public workshop. American Journal of Infection Control, 2015, 43, 2-3.	1.1	28
24	Hemoglobin assay for validation and quality control of medical device reprocessing. Analytical and Bioanalytical Chemistry, 2015, 407, 6885-6889.	1.9	5
25	Novel Developments in the Prevention, Diagnosis, and Treatment of Periprosthetic Joint Infections. Journal of the American Academy of Orthopaedic Surgeons, The, 2015, 23, S32-S43.	1.1	40
26	Rapid evaluation of the durability of cortical neural implants using accelerated aging with reactive oxygen species. Journal of Neural Engineering, 2015, 12, 026003.	1.8	150
27	The Effect of Fluorescent Labels on Protein Sorption in Polymer Hydrogels. Journal of Fluorescence, 2014, 24, 1639-1650.	1.3	20
28	A high-throughput method for testing biofouling and cleaning of polymer hydrogel materials used in medical devices. Analytical Methods, 2014, 6, 4521.	1.3	9
29	Cytotoxic evaluation of nanostructured zinc oxide (ZnO) thin films and leachates. Toxicology in Vitro, 2014, 28, 1144-1152.	1.1	29
30	The Effect of Contact Lens Materials on Disinfection Activity of Polyquaternium-1 and Myristamidopropyl Dimethylamine Multipurpose Solution Against Staphylococcus aureus. Eye and Contact Lens, 2012, 38, 374-378.	0.8	8
31	Material Properties That Predict Preservative Uptake for Silicone Hydrogel Contact Lenses. Eye and Contact Lens, 2012, 38, 350-357.	0.8	32
32	Analytical Challenges of Microbial Biofilms on Medical Devices. Analytical Chemistry, 2012, 84, 3858-3866.	3.2	113
33	Continuous analysis of dye-loaded, single cells on a microfluidic chip. Lab on A Chip, 2011, 11, 1333.	3.1	37
34	Air-stable supported membranes for single-cell cytometry on PDMS microchips. Lab on A Chip, 2010, 10, 864.	3.1	9
35	Surface Plasmon Resonance. Springer Protocols, 2008, , 809-820.	0.1	5
36	Chemical Analysis of Single Cells. Annual Review of Analytical Chemistry, 2008, 1, 191-227.	2.8	100

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37	Characterizing Stability Properties of Supported Bilayer Membranes on Nanoglassified Substrates Using Surface Plasmon Resonance. <i>Langmuir</i> , 2008, 24, 8127-8133.	1.6	23
38	Separations in Poly(dimethylsiloxane) Microchips Coated with Supported Bilayer Membranes. <i>Analytical Chemistry</i> , 2008, 80, 9756-9762.	3.2	25
39	Development of a "Membrane Cloaking" Method for Amperometric Enzyme Immunoassay and Surface Plasmon Resonance Analysis of Proteins in Serum Samples. <i>Analytical Chemistry</i> , 2007, 79, 899-907.	3.2	49
40	Laser-Induced Mixing in Microfluidic Channels. <i>Analytical Chemistry</i> , 2007, 79, 4484-4492.	3.2	146
41	Microfluidic fabrication of addressable tethered lipid bilayer arrays and optimization using SPR with silane-derivatized nanoglassy substrates. <i>Lab on A Chip</i> , 2007, 7, 927.	3.1	38
42	Recent advances in surface plasmon resonance based techniques for bioanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1831-1840.	1.9	177
43	Immunosensing of Staphylococcus enterotoxin B (SEB) in milk with PDMS microfluidic systems using reinforced supported bilayer membranes (r-SBMs). <i>Lab on A Chip</i> , 2006, 6, 675.	3.1	56
44	Surface Plasmon Resonance Imaging Analysis of Protein-Receptor Binding in Supported Membrane Arrays on Gold Substrates with Calcinated Silicate Films. <i>Journal of the American Chemical Society</i> , 2006, 128, 9590-9591.	6.6	53
45	Nanoscale Classification of Gold Substrates for Surface Plasmon Resonance Analysis of Protein Toxins with Supported Lipid Membranes. <i>Analytical Chemistry</i> , 2006, 78, 596-603.	3.2	85
46	Stable and Fluid Ethylphosphocholine Membranes in a Poly(dimethylsiloxane) Microsensor for Toxin Detection in Flooded Waters. <i>Analytical Chemistry</i> , 2005, 77, 2960-2965.	3.2	29
47	Microfluidic Immunoassay for Bacterial Toxins with Supported Phospholipid Bilayer Membranes on Poly(dimethylsiloxane). <i>Analytical Chemistry</i> , 2005, 77, 327-334.	3.2	108
48	Assembly and Characterization of Protein Resistant Planar Bilayers in PDMS Microfluidic Devices. <i>Materials Research Society Symposia Proceedings</i> , 2003, 774, 721.	0.1	1
49	Hydrophobic interaction electrokinetic chromatography for the separation of polycyclic aromatic hydrocarbons using non-aqueous matrices. <i>Journal of Chromatography A</i> , 2001, 914, 223-231.	1.8	21