

Akon Higuchi

List of Publications by Year in descending order

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212
papers

8,532
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34016

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docs citations

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times ranked

9318
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Cues of Biomaterials Guide Stem Cell Differentiation Fate. <i>Chemical Reviews</i> , 2013, 113, 3297-3328.	23.0	387
2	Chemically modified polysulfone hollow fibers with vinylpyrrolidone having improved blood compatibility. <i>Biomaterials</i> , 2002, 23, 2659-2666.	5.7	233
3	Sulfobetaine-grafted poly(vinylidene fluoride) ultrafiltration membranes exhibit excellent antifouling property. <i>Journal of Membrane Science</i> , 2009, 339, 151-159.	4.1	230
4	A Highly Stable Nonbiofouling Surface with Well-Packed Grafted Zwitterionic Polysulfobetaine for Plasma Protein Repulsion. <i>Langmuir</i> , 2008, 24, 5453-5458.	1.6	213
5	Green-synthesized silver nanoparticles as a novel control tool against dengue virus (DEN-2) and its primary vector <i>Aedes aegypti</i> . <i>Parasitology Research</i> , 2015, 114, 3315-3325.	0.6	184
6	Serum protein adsorption and platelet adhesion on pluronic [®] -adsorbed polysulfone membranes. <i>Biomaterials</i> , 2003, 24, 3235-3245.	5.7	182
7	Characterization and biotoxicity of <i>Hypnea musciformis</i> -synthesized silver nanoparticles as potential eco-friendly control tool against <i>Aedes aegypti</i> and <i>Plutella xylostella</i> . <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 31-38.	2.9	176
8	D.s.c. investigation of the states of water in poly(vinyl alcohol) membranes. <i>Polymer</i> , 1985, 26, 1207-1211.	1.8	170
9	Collagen Scaffolds in Cartilage Tissue Engineering and Relevant Approaches for Future Development. <i>Tissue Engineering and Regenerative Medicine</i> , 2018, 15, 673-697.	1.6	149
10	Polymeric Membranes for Chiral Separation of Pharmaceuticals and Chemicals. <i>Polymer Reviews</i> , 2010, 50, 113-143.	5.3	144
11	Preparation of poly(vinylidene fluoride) microfiltration membrane with uniform surface-copolymerized poly(ethylene glycol) methacrylate and improvement of blood compatibility. <i>Journal of Membrane Science</i> , 2008, 309, 165-174.	4.1	138
12	Biomimetic Cell Culture Proteins as Extracellular Matrices for Stem Cell Differentiation. <i>Chemical Reviews</i> , 2012, 112, 4507-4540.	23.0	130
13	<i>Sargassum muticum</i> -synthesized silver nanoparticles: an effective control tool against mosquito vectors and bacterial pathogens. <i>Parasitology Research</i> , 2015, 114, 4305-4317.	0.6	130
14	Dual-Thermoresponsive Phase Behavior of Blood Compatible Zwitterionic Copolymers Containing Nonionic Poly(<i>N</i> -isopropyl acrylamide). <i>Biomacromolecules</i> , 2009, 10, 2092-2100.	2.6	121
15	Tunable Bioadhesive Copolymer Hydrogels of Thermoresponsive Poly(<i>N</i> -isopropyl acrylamide) Containing Zwitterionic Polysulfobetaine. <i>Biomacromolecules</i> , 2010, 11, 1101-1110.	2.6	121
16	Mosquito control with green nanopesticides: towards the One Health approach? A review of non-target effects. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10184-10206.	2.7	111
17	Fern-synthesized nanoparticles in the fight against malaria: LC/MS analysis of <i>Pteridium aquilinum</i> leaf extract and biosynthesis of silver nanoparticles with high mosquitocidal and antiplasmodial activity. <i>Parasitology Research</i> , 2016, 115, 997-1013.	0.6	108
18	Biomaterials for the Feeder-Free Culture of Human Embryonic Stem Cells and Induced Pluripotent Stem Cells. <i>Chemical Reviews</i> , 2011, 111, 3021-3035.	23.0	103

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19	Predation by Asian bullfrog tadpoles, <i>Hoplobatrachus tigerinus</i> , against the dengue vector, <i>Aedes aegypti</i> , in an aquatic environment treated with mosquitocidal nanoparticles. <i>Parasitology Research</i> , 2015, 114, 3601-3610.	0.6	101
20	Gas permeability and stability of poly(1-trimethylsilyl-1-propyne-co-1-phenyl-1-propyne) membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 289-298.	2.4	100
21	Photon-Modulated Changes of Cell Attachments on Poly(spiropyran-co-methyl methacrylate) Membranes. <i>Biomacromolecules</i> , 2004, 5, 1770-1774.	2.6	97
22	Dehydration of an Ethanol/Water Azeotrope by Novel Organic-Inorganic Hybrid Membranes Based on Quaternized Chitosan and Tetraethoxysilane. <i>Biomacromolecules</i> , 2004, 5, 1567-1574.	2.6	95
23	Eco-friendly control of malaria and arbovirus vectors using the mosquitofish <i>Gambusia affinis</i> and ultra-low dosages of Mimusops elengi-synthesized silver nanoparticles: towards an integrative approach?. <i>Environmental Science and Pollution Research</i> , 2015, 22, 20067-20083.	2.7	94
24	Neem (<i>Azadirachta indica</i>): towards the ideal insecticide?. <i>Natural Product Research</i> , 2017, 31, 369-386.	1.0	94
25	Seaweed-synthesized silver nanoparticles: an eco-friendly tool in the fight against <i>Plasmodium falciparum</i> and its vector <i>Anopheles stephensi</i> ?. <i>Parasitology Research</i> , 2015, 114, 4087-4097.	0.6	91
26	Chiral separation of phenylalanine by ultrafiltration through immobilized DNA membranes. <i>Journal of Membrane Science</i> , 2003, 221, 207-218.	4.1	82
27	Surface modified polysulfone membranes: Separation of mixed proteins and optical resolution of tryptophan. <i>Desalination</i> , 1993, 90, 127-136.	4.0	77
28	Separation of proteins by surface modified polysulfone membranes. <i>Journal of Membrane Science</i> , 1991, 57, 175-185.	4.1	75
29	Alginate/Galactosylated Chitosan/Heparin Scaffold As a New Synthetic Extracellular Matrix for Hepatocytes. <i>Tissue Engineering</i> , 2006, 12, 33-44.	4.9	75
30	Preparation of a DNA Aptamer-Pt Complex and Its Use in the Colorimetric Sensing of Thrombin and Anti-Thrombin Antibodies. <i>Analytical Chemistry</i> , 2008, 80, 6580-6586.	3.2	75
31	Surface Zwitterionization of Titanium for a General Bio-Inert Control of Plasma Proteins, Blood Cells, Tissue Cells, and Bacteria. <i>Langmuir</i> , 2014, 30, 7502-7512.	1.6	75
32	Hemocompatible Control of Sulfobetaine-Grafted Polypropylene Fibrous Membranes in Human Whole Blood via Plasma-Induced Surface Zwitterionization. <i>Langmuir</i> , 2012, 28, 17733-17742.	1.6	74
33	Surface self-assembled zwitterionization of poly(vinylidene fluoride) microfiltration membranes via hydrophobic-driven coating for improved blood compatibility. <i>Journal of Membrane Science</i> , 2014, 454, 253-263.	4.1	74
34	Earthworm-mediated synthesis of silver nanoparticles: A potent tool against hepatocellular carcinoma, <i>Plasmodium falciparum</i> parasites and malaria mosquitoes. <i>Parasitology International</i> , 2016, 65, 276-284.	0.6	73
35	Nanoparticles as effective acaricides against ticks—A review. <i>Ticks and Tick-borne Diseases</i> , 2017, 8, 821-826.	1.1	72
36	Surface-modified polysulfone hollow fibers. <i>Journal of Applied Polymer Science</i> , 1988, 36, 1753-1767.	1.3	71

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37	Sorption and Transport Properties of Propane and Perfluoropropane in Poly(dimethylsiloxane) and Poly(1-trimethylsilyl-1-propyne). <i>Macromolecules</i> , 2005, 38, 1899-1910.	2.2	68
38	Introducing Mixed-Charge Copolymers As Wound Dressing Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9858-9870.	4.0	67
39	Physical cues of cell culture materials lead the direction of differentiation lineages of pluripotent stem cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8032-8058.	2.9	67
40	Application of bioactive hydrogels combined with dental pulp stem cells for the repair of large gap peripheral nerve injuries. <i>Bioactive Materials</i> , 2021, 6, 638-654.	8.6	67
41	Design of polymeric materials for culturing human pluripotent stem cells: Progress toward feeder-free and xeno-free culturing. <i>Progress in Polymer Science</i> , 2014, 39, 1348-1374.	11.8	66
42	D.s.c. investigation of the states of water in poly(vinyl alcohol-co-itaconic acid) membranes. <i>Polymer</i> , 1985, 26, 1833-1837.	1.8	65
43	Microcalorimetrics Studies of the Thermodynamics and Binding Mechanism between <i>l</i> -Tyrosinamide and Aptamer. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6665-6673.	1.2	65
44	External stimulus-responsive biomaterials designed for the culture and differentiation of ES, iPS, and adult stem cells. <i>Progress in Polymer Science</i> , 2014, 39, 1585-1613.	11.8	63
45	Generation of pluripotent stem cells without the use of genetic material. <i>Laboratory Investigation</i> , 2015, 95, 26-42.	1.7	62
46	A pH-sensitive guar gum- <i>g</i> -grafted- <i>l</i> -lysine- β -cyclodextrin drug carrier for the controlled release of 5-flourouracil into cancer cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1519-1530.	2.9	62
47	The states of water in gel cellophane membranes. <i>Polymer Bulletin</i> , 1984, 11, 203.	1.7	59
48	Optical resolution of amino acids by ultrafiltration membranes containing serum albumin. <i>Journal of Membrane Science</i> , 1994, 93, 157-164.	4.1	59
49	Mosquitocidal and antiplasmodial activity of <i>Senna occidentalis</i> (Cassiae) and <i>Ocimum basilicum</i> (Lamiaceae) from Maruthamalai hills against <i>Anopheles stephensi</i> and <i>Plasmodium falciparum</i> . <i>Parasitology Research</i> , 2015, 114, 3657-3664.	0.6	59
50	Long-term xeno-free culture of human pluripotent stem cells on hydrogels with optimal elasticity. <i>Scientific Reports</i> , 2016, 5, 18136.	1.6	58
51	Eco-friendly drugs from the marine environment: spongweed-synthesized silver nanoparticles are highly effective on <i>Plasmodium falciparum</i> and its vector <i>Anopheles stephensi</i> , with little non-target effects on predatory copepods. <i>Environmental Science and Pollution Research</i> , 2016, 23, 16671-16685.	2.7	56
52	Efficiency of newly formulated camptothecin with β -cyclodextrin-EDTA-Fe ₃ O ₄ nanoparticle-conjugated nanocarriers as an anti-colon cancer (HT29) drug. <i>Scientific Reports</i> , 2017, 7, 10962.	1.6	54
53	Stem Cell Therapies for Reversing Vision Loss. <i>Trends in Biotechnology</i> , 2017, 35, 1102-1117.	4.9	54
54	Polymeric design of cell culture materials that guide the differentiation of human pluripotent stem cells. <i>Progress in Polymer Science</i> , 2017, 65, 83-126.	11.8	54

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55	Fern-synthesized silver nanocrystals: Towards a new class of mosquito oviposition deterrents?. <i>Research in Veterinary Science</i> , 2016, 109, 40-51.	0.9	53
56	Datura metal-synthesized silver nanoparticles magnify predation of dragonfly nymphs against the malaria vector <i>Anopheles stephensi</i> . <i>Parasitology Research</i> , 2015, 114, 4645-4654.	0.6	52
57	Morphology and gas permeability in copolyimides containing polydimethylsiloxane block. <i>Journal of Membrane Science</i> , 2002, 206, 149-163.	4.1	51
58	Bioadhesive Control of Plasma Proteins and Blood Cells from Umbilical Cord Blood onto the Interface Grafted with Zwitterionic Polymer Brushes. <i>Langmuir</i> , 2012, 28, 4309-4317.	1.6	50
59	PEGylation of anti-biofouling polysulfone membranes via liquid- and vapor-induced phase separation processing. <i>Journal of Membrane Science</i> , 2012, 403-404, 47-57.	4.1	50
60	Investigation of the Mechanism of β -Amyloid Fibril Formation by Kinetic and Thermodynamic Analyses. <i>Langmuir</i> , 2008, 24, 5802-5808.	1.6	48
61	Stem cell therapies for myocardial infarction in clinical trials: bioengineering and biomaterial aspects. <i>Laboratory Investigation</i> , 2017, 97, 1167-1179.	1.7	46
62	Magnetic nanoparticles are highly toxic to chloroquine-resistant <i>Plasmodium falciparum</i> , dengue virus (DEN-2), and their mosquito vectors. <i>Parasitology Research</i> , 2017, 116, 495-502.	0.6	46
63	Optical resolution of amino acid by ultrafiltration using recognition sites of DNA. <i>Journal of Membrane Science</i> , 2002, 205, 203-212.	4.1	45
64	Chiral separation of amino acids in ultrafiltration through DNA-immobilized cellulose membranes. <i>Journal of Molecular Structure</i> , 2005, 739, 145-152.	1.8	45
65	Continuous harvest of stem cells via partial detachment from thermoresponsive nanobrush surfaces. <i>Biomaterials</i> , 2016, 76, 76-86.	5.7	45
66	The combined influence of substrate elasticity and surface-grafted molecules on the ex vivo expansion of hematopoietic stem and progenitor cells. <i>Biomaterials</i> , 2013, 34, 7632-7644.	5.7	43
67	Biomaterials used in stem cell therapy for spinal cord injury. <i>Progress in Materials Science</i> , 2019, 103, 374-424.	16.0	43
68	Surface-modified polysulfone hollow fibers. IV. Chloromethylated fibers and their derivatives. <i>Journal of Applied Polymer Science</i> , 1992, 46, 449-457.	1.3	42
69	Xeno-free culture of human pluripotent stem cells on oligopeptide-grafted hydrogels with various molecular designs. <i>Scientific Reports</i> , 2017, 7, 45146.	1.6	42
70	Physical modification of poly [1(trimethylsilyl)-1-propyne] membranes for gas separation. <i>Journal of Membrane Science</i> , 1994, 94, 183-193.	4.1	40
71	Green-synthesized CdS nano-pesticides: Toxicity on young instars of malaria vectors and impact on enzymatic activities of the non-target mud crab <i>Scylla serrata</i> . <i>Aquatic Toxicology</i> , 2017, 188, 100-108.	1.9	40
72	The isolation and differentiation of human adipose-derived stem cells using membrane filtration. <i>Biomaterials</i> , 2012, 33, 8228-8239.	5.7	37

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73	Fabrication of nano-mosquitocides using chitosan from crab shells: Impact on non-target organisms in the aquatic environment. <i>Ecotoxicology and Environmental Safety</i> , 2016, 132, 318-328.	2.9	37
74	Membrane potential and permeation of salts across bipolar membranes. <i>Journal of Membrane Science</i> , 1987, 32, 267-280.	4.1	36
75	A tris(2,2'-bipyridine)ruthenium(ii) derivative tethered to a cis-PtCl ₂ (amine) ₂ moiety: syntheses, spectroscopic properties, and visible-light-induced scission of DNA. <i>Dalton Transactions</i> , 2006, , 3300-3305.	1.6	35
76	Temperature-induced cell detachment on immobilized pluronic surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 380-392.	2.1	35
77	Ataxia telangiectasia derived iPS cells show preserved x-ray sensitivity and decreased chromosomal instability. <i>Scientific Reports</i> , 2014, 4, 5421.	1.6	35
78	Temperature-Dependent Cell Detachment on Pluronic Gels. <i>Biomacromolecules</i> , 2005, 6, 691-696.	2.6	33
79	Iron and iron oxide nanoparticles are highly toxic to <i>Culex quinquefasciatus</i> with little non-target effects on larvivorous fishes. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10504-10514.	2.7	33
80	Hemocompatibility of Polyampholyte Copolymers with Well-Defined Charge Bias in Human Blood. <i>Langmuir</i> , 2014, 30, 6489-6496.	1.6	31
81	Magneto-chemotherapy for cervical cancer treatment with camptothecin loaded Fe ₃ O ₄ functionalized β -cyclodextrin nanovehicle. <i>RSC Advances</i> , 2017, 7, 46271-46285.	1.7	31
82	Nanofabrication of Graphene Quantum Dots with High Toxicity Against Malaria Mosquitoes, <i>Plasmodium falciparum</i> and MCF-7 Cancer Cells: Impact on Predation of Non-target Tadpoles, Odonate Nymphs and Mosquito Fishes. <i>Journal of Cluster Science</i> , 2017, 28, 393-411.	1.7	31
83	Biosurfactants produced by <i>Bacillus subtilis</i> A1 and <i>Pseudomonas stutzeri</i> NA3 reduce longevity and fecundity of <i>Anopheles stephensi</i> and show high toxicity against young instars. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10471-10481.	2.7	31
84	Effect of cell culture biomaterials for completely xeno-free generation of human induced pluripotent stem cells. <i>Biomaterials</i> , 2020, 230, 119638.	5.7	31
85	Osteoblast Differentiation of Amniotic Fluid-Derived Stem Cells Irradiated with Visible Light. <i>Tissue Engineering - Part A</i> , 2011, 17, 2593-2602.	1.6	30
86	Stem Cell Therapy for Treatment of Ocular Disorders. <i>Stem Cells International</i> , 2016, 2016, 1-18.	1.2	30
87	Membrane potential and ion transport in inhomogeneous ion-exchange membranes. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 3609.	1.0	29
88	Cell separation of hepatocytes and fibroblasts through surface-modified polyurethane membranes. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71A, 470-479.	3.0	29
89	A systematic SPR study of human plasma protein adsorption behavior on the controlled surface packing of self-assembled poly(ethylene oxide) triblock copolymer surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 400-408.	2.1	29
90	Efficient differentiation of human pluripotent stem cells into cardiomyocytes on cell sorting thermoresponsive surface. <i>Biomaterials</i> , 2020, 253, 120060.	5.7	29

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91	Biofouling-resistance control of expanded poly(tetrafluoroethylene) membrane via atmospheric plasma-induced surface PEGylation. <i>Journal of Membrane Science</i> , 2013, 439, 48-57.	4.1	27
92	Gas permeation through hydrogels. <i>Journal of Membrane Science</i> , 1985, 25, 171-180.	4.1	26
93	Removal of endocrine disruptors by selective sorption method using polydimethylsiloxane membranes. <i>Journal of Membrane Science</i> , 2003, 213, 137-144.	4.1	26
94	Mosquitocidal, Antimalarial and Antidiabetic Potential of <i>Musa paradisiaca</i> -Synthesized Silver Nanoparticles: In Vivo and In Vitro Approaches. <i>Journal of Cluster Science</i> , 2017, 28, 91-107.	1.7	26
95	Gold Nanoparticles Inducing Osteogenic Differentiation of Stem Cells: A Review. <i>Journal of Cluster Science</i> , 2018, 29, 1-7.	1.7	26
96	Separation of endocrine disruptors from aqueous solutions by pervaporation. <i>Journal of Membrane Science</i> , 2002, 198, 311-320.	4.1	25
97	Visible light regulates neurite outgrowth of nerve cells. <i>Cytotechnology</i> , 2007, 54, 181-188.	0.7	25
98	Polymeric Materials for Ex vivo Expansion of Hematopoietic Progenitor and Stem Cells. <i>Polymer Reviews</i> , 2009, 49, 181-200.	5.3	25
99	Differentiation ability of adipose-derived stem cells separated from adipose tissue by a membrane filtration method. <i>Journal of Membrane Science</i> , 2011, 366, 286-294.	4.1	25
100	Recent Developments in \hat{i}^2 -Cell Differentiation of Pluripotent Stem Cells Induced by Small and Large Molecules. <i>International Journal of Molecular Sciences</i> , 2014, 15, 23418-23447.	1.8	25
101	Purification of human adipose-derived stem cells from fat tissues using PLGA/silk screen hybrid membranes. <i>Biomaterials</i> , 2014, 35, 4278-4287.	5.7	24
102	Odontogenic epithelial stem cells: hidden sources. <i>Laboratory Investigation</i> , 2015, 95, 1344-1352.	1.7	24
103	The recent outbreaks of Zika virus: Mosquito control faces a further challenge. <i>Asian Pacific Journal of Tropical Disease</i> , 2016, 6, 253-258.	0.5	24
104	Micro-Computed Tomography Detection of Gold Nanoparticle-Labelled Mesenchymal Stem Cells in the Rat Subretinal Layer. <i>International Journal of Molecular Sciences</i> , 2017, 18, 345.	1.8	24
105	Managing wastes as green resources: cigarette butt-synthesized pesticides are highly toxic to malaria vectors with little impact on predatory copepods. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10456-10470.	2.7	24
106	Mangrove Helps: <i>Sonneratia alba</i> -Synthesized Silver Nanoparticles Magnify Guppy Fish Predation Against <i>Aedes aegypti</i> Young Instars and Down-Regulate the Expression of Envelope (E) Gene in Dengue Virus (Serotype DEN-2). <i>Journal of Cluster Science</i> , 2017, 28, 437-461.	1.7	23
107	Generation of universal and hypoimmunogenic human pluripotent stem cells. <i>Cell Proliferation</i> , 2020, 53, e12946.	2.4	23
108	Infrared spectroscopic studies of CO ₂ sorbed in glassy and rubbery polymeric membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 149-157.	2.4	22

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109	A hybrid-membrane migration method to isolate high-purity adipose-derived stem cells from fat tissues. <i>Scientific Reports</i> , 2015, 5, 10217.	1.6	22
110	Purification and differentiation of human adipose-derived stem cells by membrane filtration and membrane migration methods. <i>Scientific Reports</i> , 2017, 7, 40069.	1.6	22
111	Surface zwitterionization on versatile hydrophobic interfaces <i>via</i> a combined copolymerization/self-assembling process. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4909-4919.	2.9	22
112	Zwitterionic fibrous polypropylene assembled with amphiphatic carboxybetaine copolymers for hemocompatible blood filtration. <i>Acta Biomaterialia</i> , 2016, 40, 130-141.	4.1	21
113	Rapid biosynthesis of silver nanoparticles using <i>Crotalaria verrucosa</i> leaves against the dengue vector <i>Aedes aegypti</i>: what happens around? An analysis of dragonfly predatory behaviour after exposure at ultra-low doses. <i>Natural Product Research</i> , 2016, 30, 826-833.	1.0	21
114	Impact of dengue virus (serotype DENV-2) infection on liver of BALB/c mice: A histopathological analysis. <i>Tissue and Cell</i> , 2017, 49, 86-94.	1.0	21
115	Optical resolution of amino acid by ultrafiltration through immobilized DNA membranes. <i>Desalination</i> , 2002, 148, 155-157.	4.0	20
116	Bioinert Surface of Pluronic-Immobilized Flask for Preservation of Hematopoietic Stem Cells. <i>Biomacromolecules</i> , 2006, 7, 1083-1089.	2.6	20
117	Direct ex vivo expansion of hematopoietic stem cells from umbilical cord blood on membranes. <i>Journal of Membrane Science</i> , 2010, 351, 104-111.	4.1	20
118	A Zwitterionic-Shielded Carrier with pH-Modulated Reversible Self-Assembly for Gene Transfection. <i>Langmuir</i> , 2017, 33, 1914-1926.	1.6	20
119	Do <i>Chenopodium ambrosioides</i> -Synthesized Silver Nanoparticles Impact <i>Oryzias melastigma</i> Predation Against <i>Aedes albopictus</i> Larvae?. <i>Journal of Cluster Science</i> , 2017, 28, 413-436.	1.7	20
120	Permeation of \hat{I}^3 -globulin through microporous membranes in the presence of trace DNA. <i>Journal of Membrane Science</i> , 2001, 186, 9-18.	4.1	19
121	Separation of endocrine disruptors from aqueous solutions by pervaporation: Dioctylphthalate and butylated hydroxytoluene in mineral water. <i>Journal of Applied Polymer Science</i> , 2004, 94, 1737-1742.	1.3	19
122	Effect of the surface density of nanosegments immobilized on culture dishes on ex vivo expansion of hematopoietic stem and progenitor cells from umbilical cord blood. <i>Acta Biomaterialia</i> , 2012, 8, 1749-1758.	4.1	19
123	Mineral substituted hydroxyapatite coatings deposited on nanoporous TiO_2 modulate the directional growth and activity of osteoblastic cells. <i>RSC Advances</i> , 2015, 5, 58980-58988.	1.7	19
124	Serum protein adsorption and platelet adhesion on aspartic-acid-immobilized polysulfone membranes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004, 15, 1051-1063.	1.9	18
125	Leptospirosis: Molecular trial path and immunopathogenesis correlated with dengue, malaria and mimetic hemorrhagic infections. <i>Acta Tropica</i> , 2017, 176, 206-223.	0.9	18
126	The design of a thermoresponsive surface for the continuous culture of human pluripotent stem cells. <i>Biomaterials</i> , 2019, 221, 119411.	5.7	18

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127	Permselectivities through artificial membranes at a non-steady state. <i>Journal of Applied Polymer Science</i> , 1989, 37, 2181-2190.	1.3	17
128	Stem cell culture on polyvinyl alcohol hydrogels having different elasticity and immobilized with ECM-derived oligopeptides. <i>Journal of Polymer Engineering</i> , 2017, 37, 647-660.	0.6	17
129	The effect of human platelet lysate on the differentiation ability of human adipose-derived stem cells cultured on ECM-coated surfaces. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7110-7119.	2.9	17
130	Visible light is able to regulate neurite outgrowth. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003, 14, 1377-1388.	1.9	16
131	Preparation of induced pluripotent stem cells on dishes grafted on oligopeptide under feeder-free conditions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 295-301.	2.7	16
132	Green-synthesised nanoparticles from <i>Melia azedarach</i> seeds and the cyclopoid crustacean <i>Cyclops vernalis</i> : an eco-friendly route to control the malaria vector <i>Anopheles stephensi</i> . <i>Natural Product Research</i> , 2016, 30, 2077-2084.	1.0	16
133	Towards Bio-Encapsulation of Chitosan-Silver Nanocomplex? Impact on Malaria Mosquito Vectors, Human Breast Adenocarcinoma Cells (MCF-7) and Behavioral Traits of Non-target Fishes. <i>Journal of Cluster Science</i> , 2017, 28, 529-550.	1.7	16
134	Bioinert Control of Zwitterionic Poly(ethylene terephthalate) Fibrous Membranes. <i>Langmuir</i> , 2019, 35, 1727-1739.	1.6	16
135	Enhanced CEA production associated with aspirin in a culture of CW-2 cells on some polymeric films. <i>Cytotechnology</i> , 1999, 31, 233-242.	0.7	14
136	Separation of CD34+ cells from human peripheral blood through polyurethane foaming membranes. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 491-499.	2.1	14
137	Separation of hematopoietic stem cells from human peripheral blood through modified polyurethane foaming membranes. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 85A, 853-861.	2.1	14
138	Xeno-free and feeder-free culture and differentiation of human embryonic stem cells on recombinant vitronectin-grafted hydrogels. <i>Biomaterials Science</i> , 2019, 7, 4345-4362.	2.6	14
139	Efficient differentiation of human ES and iPS cells into cardiomyocytes on biomaterials under xeno-free conditions. <i>Biomaterials Science</i> , 2019, 7, 5467-5481.	2.6	14
140	Effect of aggregated protein sizes on the flux of protein solution through microporous membranes. <i>Journal of Membrane Science</i> , 2004, 236, 137-144.	4.1	13
141	Cell separation between mesenchymal progenitor cells through porous polymeric membranes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 74B, 511-519.	1.6	13
142	Regulation of Neurite Outgrowth by Intermittent Irradiation of Visible Light. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11033-11036.	1.2	13
143	Permeation of blood cells from umbilical cord blood through surface-modified polyurethane foaming membranes. <i>Journal of Membrane Science</i> , 2009, 339, 184-188.	4.1	13
144	Physical cues of biomaterials guide stem cell fate of differentiation: The effect of elasticity of cell culture biomaterials. <i>Open Physics</i> , 2018, 16, 943-955.	0.8	13

#	ARTICLE	IF	CITATIONS
145	Sieving study of chromatin and histone-DNA complex by porous hollow fiber membranes. <i>Journal of Membrane Science</i> , 1997, 126, 7-17.	4.1	12
146	Synthesis and Structure of New Binuclear Organopalladium Macrocyclic Complexes. <i>Organometallics</i> , 2001, 20, 3833-3835.	1.1	12
147	Production of interferon-beta by fibroblast cells on membranes prepared by extracellular matrix proteins. <i>Cytotechnology</i> , 2002, 39, 131-137.	0.7	12
148	Effect of UV intensity on structure, water sorption, and transport properties of crosslinked N-vinyl-2-pyrrolidone/N,N- ϵ -methylenebisacrylamide films. <i>Journal of Membrane Science</i> , 2010, 348, 47-55.	4.1	12
149	Recent Updates on Treatment of Ocular Microbial Infections by Stem Cell Therapy: A Review. <i>International Journal of Molecular Sciences</i> , 2018, 19, 558.	1.8	12
150	Thermoresponsive surfaces designed for the proliferation and differentiation of human pluripotent stem cells. <i>Acta Biomaterialia</i> , 2020, 116, 162-173.	4.1	12
151	Synthesis and gas transport properties of new copolymer membranes with trimethylsilyl groups. <i>Desalination</i> , 1993, 90, 183-192.	4.0	11
152	Enhanced microfiltration of $\hat{\text{I}}^3$ -globulin solution upon treatment of NaCl addition and/or DNase digestion. <i>Journal of Membrane Science</i> , 2002, 210, 369-378.	4.1	11
153	Novel Enzymatic Properties of DNA $\hat{\text{I}}^3$ Pt Complexes. <i>Biomacromolecules</i> , 2007, 8, 2684-2688.	2.6	11
154	Differentiation Ability of Amniotic Fluid-Derived Stem Cells Cultured on Extracellular Matrix-immobilized Surface. <i>Current Nanoscience</i> , 2011, 7, 893-901.	0.7	11
155	Pluripotency maintenance of amniotic fluid-derived stem cells cultured on biomaterials. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3858-3869.	2.9	11
156	Proliferation and osteogenic differentiation of amniotic fluid-derived stem cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5345-5354.	2.9	11
157	Genomic plasticity between human and mycobacterial DNA: A review. <i>Tuberculosis</i> , 2017, 107, 38-47.	0.8	11
158	Poly(Styrene Sulfonate)/Poly(Allylamine Hydrochloride) Encapsulation of TiO ₂ Nanoparticles Boosts Their Toxic and Repellent Activity Against Zika Virus Mosquito Vectors. <i>Journal of Cluster Science</i> , 2018, 29, 27-39.	1.7	11
159	Neuronal Cell Differentiation of Human Dental Pulp Stem Cells on Synthetic Polymeric Surfaces Coated With ECM Proteins. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	11
160	Synthesis and performance of amphiphilic copolymers for blood cell separation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 78B, 318-326.	1.6	10
161	Drug-resistant colon cancer cells produce high carcinoembryonic antigen and might not be cancer-initiating cells. <i>Drug Design, Development and Therapy</i> , 2013, 7, 491.	2.0	10
162	Recognition of substrates by membrane potential of immobilized glucose oxidase membranes. <i>Journal of Applied Polymer Science</i> , 1994, 51, 1735-1739.	1.3	9

#	ARTICLE	IF	CITATIONS
163	Laminin-511 and recombinant vitronectin supplementation enables human pluripotent stem cell culture and differentiation on conventional tissue culture polystyrene surfaces in xeno-free conditions. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8604-8614.	2.9	9
164	Poly(vinyl alcohol-co-itaconic acid) hydrogels grafted with several designed peptides for human pluripotent stem cell culture and differentiation into cardiomyocytes. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7662-7673.	2.9	9
165	Separation of mixed gases through porous polymeric membranes. <i>Journal of Membrane Science</i> , 1997, 126, 67-76.	4.1	8
166	Suppression of cancer-initiating cells and selection of adipose-derived stem cells cultured on biomaterials having specific nanosegments. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 463-476.	1.6	8
167	Distinctive features of single nucleotide alterations in induced pluripotent stem cells with different types of DNA repair deficiency disorders. <i>Scientific Reports</i> , 2016, 6, 26342.	1.6	8
168	Universal Bioinert Control of Polystyrene Interfaces via Hydrophobic-Driven Self-Assembled Surface PEGylation with a Well-Defined Block Sequence. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700102.	1.1	8
169	Neem cake as a promising larvicide and adulticide against the rural malaria vector <i>Anopheles culicifacies</i> (Diptera: Culicidae): a HPTLC fingerprinting approach. <i>Natural Product Research</i> , 2017, 31, 1185-1190.	1.0	8
170	Flower-Like Copper Sulfide Nanocrystals are Highly Effective Against Chloroquine-Resistant <i>Plasmodium falciparum</i> and the Malaria Vector <i>Anopheles stephensi</i> . <i>Journal of Cluster Science</i> , 2017, 28, 581-594.	1.7	8
171	Effect of extracellular matrix proteins on the differentiation of human pluripotent stem cells into mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5723-5732.	2.9	8
172	Production of interferon-beta by NB1-RGB cells cultured on peptide-lipid membranes. <i>Cytotechnology</i> , 2003, 42, 13-20.	0.7	7
173	Hemocompatible interface control via thermal-activated bio-inspired surface PEGylation. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 409-420.	1.8	7
174	Bismuth Oxyiodide Nanoflakes Showed Toxicity Against the Malaria Vector <i>Anopheles stephensi</i> and In Vivo Antiplasmodial Activity. <i>Journal of Cluster Science</i> , 2018, 29, 337-344.	1.7	7
175	Modulatory and regenerative potential of transplanted bone marrow-derived mesenchymal stem cells on rifampicin-induced kidney toxicity. <i>Regenerative Therapy</i> , 2018, 9, 100-110.	1.4	7
176	Enrichment of cancer-initiating cells from colon cancer cells through porous polymeric membranes by a membrane filtration method. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10577-10585.	2.9	7
177	Culture and differentiation of purified human adipose-derived stem cells by membrane filtration via nylon mesh filters. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5204-5214.	2.9	7
178	Recognition of substrates by membrane potential of immobilized enzyme membranes: membrane potential theory. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 2723.	1.7	6
179	Recognition of substrates by membrane potential of immobilized enzyme membranes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 695.	1.7	6
180	Recognition of Amino Acids by Membrane Potential of Immobilized Serum Albumin Membranes. <i>Polymer Journal</i> , 1993, 25, 747-755.	1.3	6

#	ARTICLE	IF	CITATIONS
181	Enhanced production of carcinoembryonic antigen by CW-2 cells cultured on polymeric membranes immobilized with extracellular matrix proteins. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003, 14, 139-155.	1.9	6
182	Albumin and urea production by hepatocytes cultured on extracellular matrix proteins-conjugated poly (vinyl alcohol) membranes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 847-860.	1.9	6
183	Albumin and urea production by hepatocytes cultured on polyurethane foaming membranes coated with extracellular matrix. <i>Journal of Membrane Science</i> , 2006, 280, 983-989.	4.1	6
184	Development of biomaterial surfaces with and without microbial nanosegments. <i>Journal of Polymer Engineering</i> , 2016, 36, 1-12.	0.6	6
185	Human Pluripotent Stem Cell Culture on Polyvinyl Alcohol-Co-Itaconic Acid Hydrogels with Varying Stiffness Under Xeno-Free Conditions. <i>Journal of Visualized Experiments</i> , 2018, . .	0.2	6
186	Looking into dental pulp stem cells in the therapy of photoreceptors and retinal degenerative disorders. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 203, 111727.	1.7	6
187	Transient characteristics of universal cells on human-induced pluripotent stem cells and their differentiated cells derived from foetal stem cells with mixed donor sources. <i>Cell Proliferation</i> , 2021, 54, e12995.	2.4	6
188	Recognition of ions by non-steady state analysis in their permeation in membranes. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 127.	1.0	5
189	Preservation of Hematopoietic Stem and Progenitor Cells from Umbilical Cord Blood Stored in a Surface Derivatized with Polymer Nanosegments. <i>Biomacromolecules</i> , 2008, 9, 634-639.	2.6	5
190	Micro-anatomical changes in major blood vessel caused by dengue virus (serotype 2) infection. <i>Acta Tropica</i> , 2017, 171, 213-219.	0.9	5
191	Quantitation of DNA from Flow Cytometry Analysis Using Fluorescent Probe. <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 2021-2025.	2.0	4
192	Chemogenomic analysis of neuronal differentiation with pathway changes in PC12 cells. <i>Molecular BioSystems</i> , 2016, 12, 283-294.	2.9	4
193	Morphological and genetical changes of endothelial progenitor cells after in - vitro conversion into photoreceptors. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 183, 127-132.	1.7	4
194	Stem Cell Therapy in Dengue Virus-Infected BALB/C Mice Improves Hepatic Injury. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 637270.	1.8	4
195	Separation and Cultivation of Hematopoietic Stem Cells from Umbilical Cord Blood by Permeation through Membranes with Nano-Segments. <i>Current Nanoscience</i> , 2011, 7, 908-914.	0.7	4
196	Estimation of apparent permeability in heterogeneous membranes. Part 1. Model calculations through cubic chequer assembled membranes. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1984, 80, 2647.	1.0	3
197	Recognition of Substrates by Immobilized Bienenzyme Membranes. <i>Bulletin of the Chemical Society of Japan</i> , 1990, 63, 3209-3215.	2.0	3
198	Difference in the attachment of hepatocytes between a poly(¹³ -benzyl L-glutamate) (PBLG)/poly(N-isopropylacrylamide) (PNIPAAm) diblock copolymer cast surface and a PBLG/PNIPAAm Langmuir-Blodgett one. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002, 13, 829-841.	1.9	3

#	ARTICLE	IF	CITATIONS
199	Preparation of fractioned DNA aptamerâ€“Pt complex through ultrafiltration and the colorimetric sensing of thrombin. <i>Journal of Membrane Science</i> , 2009, 328, 97-103.	4.1	3
200	Visible Light-Regulated Gene Expression and Neurite Outgrowth of Nerve Cells. <i>Journal of Chemical Engineering of Japan</i> , 2011, 44, 171-178.	0.3	3
201	3D modelling of the pathogenic <i>Leptospira</i> protein LipL32: A bioinformatics approach. <i>Acta Tropica</i> , 2017, 176, 433-439.	0.9	3
202	Diffusion of gases in inhomogeneous polymeric membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990, 28, 2247-2258.	2.4	2
203	Peroxidase Activity of DNA Aptamerâ€“Pt Complexes Prepared with Cisplatin. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 67-82.	1.9	2
204	Repeated infections of dengue (serotype DENV-2) in lung cells of BALB/c mice lead to severe histopathological consequences. <i>Pathogens and Global Health</i> , 2018, 112, 259-267.	1.0	2
205	Removal of endocrine disruptors in milk by circulation through polydimethylsiloxane tubing. <i>Journal of Applied Polymer Science</i> , 2006, 102, 3634-3640.	1.3	1
206	Separation of hematopoietic stem and progenitor cells from human peripheral blood through polyurethane foaming membranes modified with several amino acids. <i>Journal of Applied Polymer Science</i> , 2009, 114, 671-679.	1.3	1
207	Data of continuous harvest of stem cells via partial detachment from thermoresponsive nanobrush surfaces. <i>Data in Brief</i> , 2016, 6, 603-608.	0.5	1
208	Measurements of Movement and Diffusion Coefficients of Single Cells on Polymeric Surface from Image Analysis. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1545-1558.	1.9	0
209	Bombyx mori Silk: An Eco-friendly Source to Produce Nanogoldâ€“Silk Bioconjugates and Gold Nanoparticles. <i>Journal of Cluster Science</i> , 2018, 29, 1161-1167.	1.7	0
210	Purification of Colon Carcinoma Cells from Primary Colon Tumor Using a Filtration Method via Porous Polymeric Filters. <i>Polymers</i> , 2021, 13, 3411.	2.0	0
211	Evaluation of Bioactivity and Effect of Polymeric Stabilizers During Heat Treatment for the Unfolded Fraction of Human Epidermal Growth Factor. <i>Journal of Fiber Science and Technology</i> , 2011, 67, 185-191.	0.0	0
212	Stem Cell: Hematopoietic Stem Cell Culture, <i>Materials for</i> . , 2017, , 1453-1464.		0