Kazuhiko Ishihara

List of Publications by Citations

577 papers	20,689 citations	68 h-index	117 g-index
595 ext. papers	22,182 ext. citations	5.7 avg, IF	7.06 L-index

#	Paper	IF	Citations
577	Preparation of Phospholipid Polylners and Their Properties as Polymer Hydrogel Membranes. *Polymer Journal*, **1990**, 22, 355-360	2.7	930
576	Why do phospholipid polymers reduce protein adsorption?. *Journal of Biomedical Materials Research Part B*, **1998**, 39, 323-30		838
575	Surface grafting of artificial joints with a biocompatible polymer for preventing periprosthetic osteolysis. *Nature Materials*, **2004**, 3, 829-36	27	467
574	Protein adsorption from human plasma is reduced on phospholipid polymers. *Journal of Biomedical Materials Research Part B*, **1991**, 25, 1397-407		392
573	Hemocompatibility of human whole blood on polymers with a phospholipid polar group and its mechanism. *Journal of Biomedical Materials Research Part B*, **1992**, 26, 1543-52		361
572	Reduced thrombogenicity of polymers having phospholipid polar groups. *Journal of Biomedical Materials Research Part B*, **1990**, 24, 1069-77		333
571	Adsorption of fibrinogen and lysozyme on silicon grafted with poly(2-methacryloyloxyethyl phosphorylcholine) via surface-initiated atom transfer radical polymerization. *Langmuir*, **2005**, 21, 5980-7	4	319
570	Perparation of 2-Methacryloyloxyethyl Phosphorylcholine Copolymers with Alkyl Methacrylates and Their Blood Compatibility.. *Polymer Journal*, **1992**, 24, 1259-1269	2.7	316
569	Wettability and antifouling behavior on the surfaces of superhydrophilic polymer brushes. *Langmuir*, **2012**, 28, 7212-22	4	313
568	Phosphorylcholine-containing polymers for biomedical applications. *Analytical and Bioanalytical Chemistry*, **2005**, 381, 534-46	4.4	284
567	Friction behavior of high-density poly(2-methacryloyloxyethyl phosphorylcholine) brush in aqueous media. *Soft Matter*, **2007**, 3, 740-746	3.6	222
566	Glucose Induced Permeation Control of Insulin through a Complex Membrane Consisting of Immobilized Glucose Oxidase and a Poly(amine). *Polymer Journal*, **1984**, 16, 625-631	2.7	208
565	Biomimetic phosphorylcholine polymer grafting from polydimethylsiloxane surface using photo-induced polymerization. *Biomaterials*, **2006**, 27, 5151-60	15.6	204
564	Cell membrane-inspired phospholipid polymers for developing medical devices with excellent biointerfaces. *Science and Technology of Advanced Materials*, **2012**, 13, 064101	7.1	194
563	Modification of polysulfone with phospholipid polymer for improvement of the blood compatibility. Part 2. Protein adsorption and platelet adhesion. *Biomaterials*, **1999**, 20, 1553-9	15.6	191
562	Synthesis of well-defined amphiphilic block copolymers having phospholipid polymer sequences as a novel biocompatible polymer micelle reagent. *Biomacromolecules*, **2005**, 6, 663-70	6.9	177
561	Photoinduced graft polymerization of 2-methacryloyloxyethyl phosphorylcholine on polyethylene membrane surface for obtaining blood cell adhesion resistance. *Colloids and Surfaces B: Biointerfaces*, **2000**, 18, 325-335	6	167

560	Significance of antibody orientation unraveled: well-oriented antibodies recorded high binding affinity. *Analytical Chemistry*, **2011**, 83, 1969-76	7.8	155
559	Raman Spectroscopic Study on the Structure of Water in Aqueous Polyelectrolyte Solutions *Journal of Physical Chemistry B*, **2000**, 104, 11425-11429	3.4	145
558	Modification of polysulfone with phospholipid polymer for improvement of the blood compatibility. Part 1. Surface characterization. *Biomaterials*, **1999**, 20, 1545-51	15.6	144
557	Surface modification on microfluidic devices with 2-methacryloyloxyethyl phosphorylcholine polymers for reducing unfavorable protein adsorption. *Colloids and Surfaces B: Biointerfaces*, **2007**, 54, 88-93	6	143
556	Inhibition of fibroblast cell adhesion on substrate by coating with 2-methacryloyloxyethyl phosphorylcholine polymers. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 1047-61	3.5	137
555	Structure of Water in the Vicinity of Phospholipid Analogue Copolymers As Studied by Vibrational Spectroscopy *Langmuir*, **2003**, 19, 10260-10266	4	134
554	Protein resistant surfaces: comparison of acrylate graft polymers bearing oligo-ethylene oxide and phosphorylcholine side chains. *Biointerphases*, **2006**, 1, 50	1.8	132
553	Synthesis of phospholipid polymers having a urethane bond in the side chain as coating material on segmented polyurethane and their platelet adhesion-resistant properties. *Biomaterials*, **1995**, 16, 873-9	15.6	130
552	Protein adsorption and cell adhesion on cationic, neutral, and anionic 2-methacryloyloxyethyl phosphorylcholine copolymer surfaces. *Biomaterials*, **2009**, 30, 4930-8	15.6	122
551	Soft contact lens biomaterials from bioinspired phospholipid polymers. *Expert Review of Medical Devices*, **2006**, 3, 167-74	3.5	122
550	Preparation and performance of protein-adsorption-resistant asymmetric porous membrane composed of polysulfone/phospholipid polymer blend. *Biomaterials*, **2001**, 22, 243-51	15.6	120
549	Self-initiated surface grafting with poly(2-methacryloyloxyethyl phosphorylcholine) on poly(ether-ether-ketone). *Biomaterials*, **2010**, 31, 1017-24	15.6	119
548	Enhanced solubility of paclitaxel using water-soluble and biocompatible 2-methacryloyloxyethyl phosphorylcholine polymers. *Journal of Biomedical Materials Research Part B*, **2003**, 65, 209-14		119
547	Hemocompatibility on graft copolymers composed of poly(2-methacryloyloxyethyl phosphorylcholine) side chain and poly(n-butyl methacrylate) backbone. *Journal of Biomedical Materials Research Part B*, **1994**, 28, 225-32		113
546	Surface tethering of phosphorylcholine groups onto poly(dimethylsiloxane) through swelling--deswelling methods with phospholipids moiety containing ABA-type block copolymers. *Biomaterials*, **2008**, 29, 1367-76	15.6	109
545	Reduction of surface-induced inflammatory reaction on PLGA/MPC polymer blend. *Biomaterials*, **2002**, 23, 3897-903	15.6	109
544	Bioinspired Self-Healing Hydrogel Based on Benzoxaborole-Catechol Dynamic Covalent Chemistry for 3D Cell Encapsulation. *ACS Macro Letters*, **2018**, 7, 904-908	6.6	105
543	Preparation of nanoparticles composed with bioinspired 2-methacryloyloxyethyl phosphorylcholine polymer. *Biomaterials*, **2001**, 22, 1883-9	15.6	102

542	Photoinduced phospholipid polymer grafting on Parylene film: advanced lubrication and antibiofouling properties. *Colloids and Surfaces B: Biointerfaces*, **2007**, 54, 67-73	6	101
541	Temporal and spatially controllable cell encapsulation using a water-soluble phospholipid polymer with phenylboronic acid moiety. *Biomaterials*, **2007**, 28, 1770-7	15.6	101
540	Hydration of phosphorylcholine groups attached to highly swollen polymer hydrogels studied by thermal analysis. *Polymer*, **2008**, 49, 4652-4657	3.9	99
539	Improved blood compatibility of segmented polyurethanes by polymeric additives having phospholipid polar groups. I. Molecular design of polymeric additives and their functions. *Journal of Biomedical Materials Research Part B*, **1996**, 32, 391-9		98
538	Revolutionary advances in 2-methacryloyloxyethyl phosphorylcholine polymers as biomaterials. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 933-943	5.4	95
537	Super-hydrophilic silicone hydrogels with interpenetrating poly(2-methacryloyloxyethyl phosphorylcholine) networks. *Biomaterials*, **2010**, 31, 3274-80	15.6	94
536	Inducing rapid cellular response on RGD-binding threaded macromolecular surfaces. *Journal of the American Chemical Society*, **2013**, 135, 5513-6	16.4	93
535	Wear resistance of artificial hip joints with poly(2-methacryloyloxyethyl phosphorylcholine) grafted polyethylene: comparisons with the effect of polyethylene cross-linking and ceramic femoral heads. *Biomaterials*, **2009**, 30, 2995-3001	15.6	93
534	Polymeric Lipid Nanosphere Consisting of Water-Soluble Poly(2-methacryloyloxyethyl phosphorylcholine-co-n-butyl methacrylate). *Polymer Journal*, **1999**, 31, 1231-1236	2.7	91
533	Cell-penetrating macromolecules: direct penetration of amphipathic phospholipid polymers across plasma membrane of living cells. *Biomaterials*, **2010**, 31, 2380-7	15.6	90
532	Polymer nanoparticles covered with phosphorylcholine groups and immobilized with antibody for high-affinity separation of proteins. *Biomacromolecules*, **2008**, 9, 828-33	6.9	90
531	Adhesive bone cement containing hydroxyapatite particle as bone compatible filler. *Journal of Biomedical Materials Research Part B*, **1992**, 26, 937-45		90
530	Self-initiated surface graft polymerization of 2-methacryloyloxyethyl phosphorylcholine on poly(ether ether ketone) by photoirradiation. *ACS Applied Materials & Interfaces*, **2009**, 1, 537-42	9.5	89
529	Suppression of the inflammatory response from adherent cells on phospholipid polymers. *Journal of Biomedical Materials Research Part B*, **2003**, 64, 411-6		89
528	Evaluation of 2-methacryloyloxyethyl phosphorylcholine polymeric nanoparticle for immunoassay of C-reactive protein detection. *Analytical Chemistry*, **2004**, 76, 2649-55	7.8	83
527	Integrated functional nanocolloids covered with artificial cell membranes for biomedical applications. *Nano Today*, **2011**, 6, 61-74	17.9	82
526	Biomimetic hydration lubrication with various polyelectrolyte layers on cross-linked polyethylene orthopedic bearing materials. *Biomaterials*, **2012**, 33, 4451-9	15.6	81
525	Degradable thermoresponsive nanogels for protein encapsulation and controlled release. *Bioconjugate Chemistry*, **2012**, 23, 75-83	6.3	81

524	Reduction of protein adsorption on well-characterized polymer brush layers with varying chemical structures. *Colloids and Surfaces B: Biointerfaces*, **2010**, 81, 350-7	6	81
523	Blood-Compatible Surfaces with Phosphorylcholine-Based Polymers for Cardiovascular Medical Devices. *Langmuir*, **2019**, 35, 1778-1787	4	80
522	Controlled release of organic substances using polymer membrane with responsive function for amino compounds. *Journal of Applied Polymer Science*, **1984**, 29, 211-217	2.9	78
521	Critical update on 2-methacryloyloxyethyl phosphorylcholine (MPC) polymer science. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	77
520	Reduction of surface-induced platelet activation on phospholipid polymer. *Journal of Biomedical Materials Research Part B*, **1997**, 36, 508-15		77
519	Dimensions of a free linear polymer and polymer immobilized on silica nanoparticles of a zwitterionic polymer in aqueous solutions with various ionic strengths. *Langmuir*, **2008**, 24, 8772-8	4	77
518	Control of insulin permeation through a polymer membrane with responsive function for glucose. *Die Makromolekulare Chemie Rapid Communications*, **1983**, 4, 327-331		77
517	Surface modification by 2-methacryloyloxyethyl phosphorylcholine coupled to a photolabile linker for cell micropatterning. *Biomaterials*, **2009**, 30, 1413-20	15.6	74
516	The effect of the chemical structure of the phospholipid polymer on fibronectin adsorption and fibroblast adhesion on the gradient phospholipid surface. *Biomaterials*, **1999**, 20, 2185-91	15.6	74
515	Photo-immobilization of a phospholipid polymer for surface modification. *Biomaterials*, **2005**, 26, 1381-8	15.6	72
514	RAFT synthesis and stimulus-induced self-assembly in water of copolymers based on the biocompatible monomer 2-(methacryloyloxy)ethyl phosphorylcholine. *Biomacromolecules*, **2009**, 10, 950-8	6.9	71
513	Water structure and improved mechanical properties of phospholipid polymer hydrogel with phosphorylcholine centered intermolecular cross-linker. *Polymer*, **2006**, 47, 1390-1396	3.9	71
512	Reduced protein adsorption on novel phospholipid polymers. *Journal of Biomaterials Applications*, **1998**, 13, 111-27	2.9	71
511	The unique hydration state of poly(2-methacryloyloxyethyl phosphorylcholine). *Journal of Biomaterials Science, Polymer Edition*, **2017**, 28, 884-899	3.5	69
510	Bioinspired interface for nanobiodevices based on phospholipid polymer chemistry. *Journal of the Royal Society Interface*, **2009**, 6 Suppl 3, S279-91	4.1	68
509	Simple surface modification of a titanium alloy with silanated zwitterionic phosphorylcholine or sulfobetaine modifiers to reduce thrombogenicity. *Colloids and Surfaces B: Biointerfaces*, **2010**, 79, 357-64	6	68
508	Effects of phospholipid adsorption on nonthrombogenicity of polymer with phospholipid polar group. *Journal of Biomedical Materials Research Part B*, **1993**, 27, 1309-14		68
507	Highly lubricated polymer interfaces for advanced artificial hip joints through biomimetic design. *Polymer Journal*, **2015**, 47, 585-597	2.7	67

506	Methacrylate polymer layers bearing poly(ethylene oxide) and phosphorylcholine side chains as non-fouling surfaces: in vitro interactions with plasma proteins and platelets. *Acta Biomaterialia*, **2011**, 7, 3692-9	10.8	67
505	Physical properties and blood compatibility of surface-modified segmented polyurethane by semi-interpenetrating polymer networks with a phospholipid polymer. *Biomaterials*, **2002**, 23, 4881-7	15.6	67
504	The vascular prosthesis without pseudointima prepared by antithrombogenic phospholipid polymer. *Biomaterials*, **2002**, 23, 1455-9	15.6	66
503	Lubricity and stability of poly(2-methacryloyloxyethyl phosphorylcholine) polymer layer on Co-Cr-Mo surface for hemi-arthroplasty to prevent degeneration of articular cartilage. *Biomaterials*, **2010**, 31, 658-68	15.6	64
502	Short-term in vivo evaluation of small-diameter vascular prosthesis composed of segmented poly(etherurethane)/2-methacryloyloxyethyl phosphorylcholine polymer blend. *Journal of Biomedical Materials Research Part B*, **1998**, 43, 15-20		64
501	Rapid development of hydrophilicity and protein adsorption resistance by polymer surfaces bearing phosphorylcholine and naphthalene groups. *Langmuir*, **2008**, 24, 10340-4	4	64
500	Synthesis of sequence-controlled copolymers from extremely polar and apolar monomers by living radical polymerization and their phase-separated structures. *Journal of Polymer Science Part A*, **2005**, 43, 6073-6083	2.5	64
499	Poly(ether-ether-ketone) orthopedic bearing surface modified by self-initiated surface grafting of poly(2-methacryloyloxyethyl phosphorylcholine). *Biomaterials*, **2013**, 34, 7829-39	15.6	63
498	Cell adhesion on phase-separated surface of block copolymer composed of poly(2-methacryloyloxyethyl phosphorylcholine) and poly(dimethylsiloxane). *Biomaterials*, **2009**, 30, 5330-40	15.6	63
497	Preparation of blood-compatible hollow fibers from a polymer alloy composed of polysulfone and 2-methacryloyloxyethyl phosphorylcholine polymer. *Journal of Biomedical Materials Research Part B* , **2002**, 63, 333-41		63
496	Reduced platelets and bacteria adhesion on poly(ether ether ketone) by photoinduced and self-initiated graft polymerization of 2-methacryloyloxyethyl phosphorylcholine. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 1342-9	5.4	62
495	Preparation of cross-linked biocompatible poly(2-methacryloyloxyethyl phosphorylcholine) gel and its strange swelling behavior in water/ethanol mixture. *Journal of Biomaterials Science, Polymer Edition*, **2002**, 13, 213-24	3.5	61
494	Photoreactive Polymers Bearing a Zwitterionic Phosphorylcholine Group for Surface Modification of Biomaterials. *ACS Applied Materials & Interfaces*, **2015**, 7, 17489-98	9.5	60
493	Enhanced wear resistance of modified cross-linked polyethylene by grafting with poly(2-methacryloyloxyethyl phosphorylcholine). *Journal of Biomedical Materials Research - Part A*, **2007**, 82, 10-7	5.4	60
492	Cell adhesion and morphology in porous scaffold based on enantiomeric poly(lactic acid) graft-type phospholipid polymers. *Biomacromolecules*, **2002**, 3, 1375-83	6.9	59
491	Improvement of blood compatibility on cellulose dialysis membrane. I. Grafting of 2-methacryloyloxyethyl phosphorylcholine on to a cellulose membrane surface. *Biomaterials*, **1992**, 13, 145-9	15.6	59
490	Artificial cell membrane-covered nanoparticles embedding quantum dots as stable and highly sensitive fluorescence bioimaging probes. *Biomacromolecules*, **2008**, 9, 3252-7	6.9	58
489	Impact of the nature, size and chain topologies of carbohydrate-phosphorylcholine polymeric gene delivery systems. *Biomaterials*, **2012**, 33, 7858-70	15.6	57

488	Microfluidic flow control on charged phospholipid polymer interface. *Lab on A Chip*, **2007**, 7, 199-206	7.2	57
487	Graft copolymerization of 2-methacryloyloxyethyl phosphorylcholine to cellulose in homogeneous media using atom transfer radical polymerization for providing new hemocompatible coating materials. *Journal of Polymer Science Part A*, **2008**, 46, 3306-3313	2.5	57
486	The prevention of peritendinous adhesions by a phospholipid polymer hydrogel formed in situ by spontaneous intermolecular interactions. *Biomaterials*, **2010**, 31, 4009-16	15.6	56
485	Bone morphogenetic protein encapsulated with a biodegradable and biocompatible polymer. *Journal of Biomedical Materials Research Part B*, **1996**, 32, 433-8		56
484	Near-Infrared Photoluminescent Carbon Nanotubes for Imaging of Brown Fat. *Scientific Reports*, **2017**, 7, 44760	4.9	55
483	High functional hollow fiber membrane modified with phospholipid polymers for a liver assist bioreactor. *Biomaterials*, **2006**, 27, 1955-62	15.6	55
482	Preservation of platelet function on 2-methacryloyloxyethyl phosphorylcholine-graft polymer as compared to various water-soluble graft polymers. *Journal of Biomedical Materials Research Part B*, **2001**, 57, 72-8		55
481	Bioconjugated phospholipid polymer biointerface for enzyme-linked immunosorbent assay. *Biomacromolecules*, **2008**, 9, 403-7	6.9	54
480	Modeling of swelling and drug release behavior of spontaneously forming hydrogels composed of phospholipid polymers. *International Journal of Pharmaceutics*, **2004**, 275, 259-69	6.5	54
479	Improvement of blood compatibility on cellulose dialysis membrane. 2. Blood compatibility of phospholipid polymer grafted cellulose membrane. *Biomaterials*, **1992**, 13, 235-9	15.6	54
478	Designing dynamic surfaces for regulation of biological responses. *Soft Matter*, **2012**, 8, 5477	3.6	53
477	High lubricious surface of cobalt-chromium-molybdenum alloy prepared by grafting poly(2-methacryloyloxyethyl phosphorylcholine). *Biomaterials*, **2007**, 28, 3121-30	15.6	53
476	Protein adsorption resistance and oxygen permeability of chemically crosslinked phospholipid polymer hydrogel for ophthalmologic biomaterials. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 89, 184-90	3.5	52
475	Nano-scale surface modification of a segmented polyurethane with a phospholipid polymer. *Biomaterials*, **2004**, 25, 5353-61	15.6	52
474	Surface mobility of polymers having phosphorylcholine groups connected with various bridging units and their protein adsorption-resistance properties. *Colloids and Surfaces B: Biointerfaces*, **2003**, 28, 53-62	6	52
473	Effects of mobility/immobility of surface modification by 2-methacryloyloxyethyl phosphorylcholine polymer on the durability of polyethylene for artificial joints. *Journal of Biomedical Materials Research - Part A*, **2009**, 90, 362-71	5.4	51
472	Platelet compatible blood filtration fabrics using a phosphorylcholine polymer having high surface mobility. *Biomaterials*, **2003**, 24, 3599-604	15.6	51
471	In situ modification on cellulose acetate hollow fiber membrane modified with phospholipid polymer for biomedical application. *Journal of Membrane Science*, **2005**, 249, 133-141	9.6	51

470	Photografting of 2-methacryloyloxyethyl phosphorylcholine from polydimethylsiloxane: tunable protein repellency and lubrication property. *Colloids and Surfaces B: Biointerfaces*, **2008**, 63, 64-72	6	50
469	Phospholipid polymer surfaces reduce bacteria and leukocyte adhesion under dynamic flow conditions. *Journal of Biomedical Materials Research - Part A*, **2005**, 73, 359-66	5.4	50
468	Long-term hip simulator testing of the artificial hip joint bearing surface grafted with biocompatible phospholipid polymer. *Journal of Orthopaedic Research*, **2014**, 32, 369-76	3.8	49
467	Intraperitoneal administration of paclitaxel solubilized with poly(2-methacryloxyethyl phosphorylcholine-co n-butyl methacrylate) for peritoneal dissemination of gastric cancer. *Cancer Science*, **2009**, 100, 1979-85	6.9	49
466	Effects of photo-induced graft polymerization of 2-methacryloyloxyethyl phosphorylcholine on physical properties of cross-linked polyethylene in artificial hip joints. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 1809-15	4.5	49
465	Sequential enzymatic reactions and stability of biomolecules immobilized onto phospholipid polymer nanoparticles. *Biomacromolecules*, **2006**, 7, 171-5	6.9	49
464	Improved blood compatibility of segmented polyurethane by polymeric additives having phospholipid polar group. II. Dispersion state of the polymeric additive and protein adsorption on the surface. *Journal of Biomedical Materials Research Part B*, **1996**, 32, 401-8		49
463	Improvement of blood compatibility on cellulose dialysis membrane. III. Synthesis and performance of water-soluble cellulose grafted with phospholipid polymer as coating material on cellulose dialysis membrane. *Journal of Biomedical Materials Research Part B*, **1995**, 29, 181-8		49
462	Adsorption-desorption of proteins on phospholipid polymer surfaces evaluated by dynamic contact angle measurement. *Journal of Biomedical Materials Research Part B*, **1995**, 29, 381-7		49
461	Molecular interaction forces generated during protein adsorption to well-defined polymer brush surfaces. *Langmuir*, **2015**, 31, 3108-14	4	48
460	The use of the mechanical microenvironment of phospholipid polymer hydrogels to control cell behavior. *Biomaterials*, **2013**, 34, 5891-6	15.6	48
459	Controlled drug release from multilayered phospholipid polymer hydrogel on titanium alloy surface. *Biomaterials*, **2009**, 30, 5201-8	15.6	47
458	Adhesion force of proteins against hydrophilic polymer brush surfaces. *Reactive and Functional Polymers*, **2011**, 71, 350-355	4.6	47
457	2006 Frank Stinchfield Award: grafting of biocompatible polymer for longevity of artificial hip joints. *Clinical Orthopaedics and Related Research*, **2006**, 453, 58-63	2.2	47
456	Semi-interpenetrating polymer networks composed of biocompatible phospholipid polymer and segmented polyurethane. *Journal of Biomedical Materials Research Part B*, **2000**, 52, 701-8		47
455	Effect of reduced protein adsorption on platelet adhesion at the phospholipid polymer surfaces. *Journal of Biomaterials Science, Polymer Edition*, **1996**, 8, 151-63	3.5	46
454	Prevention of biofilm formation with a coating of 2-methacryloyloxyethyl phosphorylcholine polymer. *Journal of Veterinary Medical Science*, **2008**, 70, 167-73	1.1	46
453	Asymmetrically functional surface properties on biocompatible phospholipid polymer membrane for bioartificial kidney. *Journal of Biomedical Materials Research - Part A*, **2006**, 77, 19-27	5.4	46

452	An enzyme-immobilization method for integration of biofunctions on a microchip using a water-soluble amphiphilic phospholipid polymer having a reacting group. *Lab on A Chip*, **2004**, 4, 4-6	7.2	46
451	Stereocomplex formation by enantiomeric poly(lactic acid) graft-type phospholipid polymers for tissue engineering. *Biomacromolecules*, **2002**, 3, 1109-14	6.9	46
450	Preparation of upper critical solution temperature (UCST) responsive diblock copolymers bearing pendant ureido groups and their micelle formation behavior in water. *Soft Matter*, **2015**, 11, 5204-13	3.6	45
449	The significance of hydrated surface molecular mobility in the control of the morphology of adhering fibroblasts. *Biomaterials*, **2013**, 34, 3206-14	15.6	45
448	Well-controlled cationic water-soluble phospholipid polymer-DNA nanocomplexes for gene delivery. *Bioconjugate Chemistry*, **2011**, 22, 1228-38	6.3	45
447	Nanoscale evaluation of lubricity on well-defined polymer brush surfaces using QCM-D and AFM. *Colloids and Surfaces B: Biointerfaces*, **2009**, 74, 350-7	6	45
446	A microfluidic hydrogel capable of cell preservation without perfusion culture under cell-based assay conditions. *Advanced Materials*, **2010**, 22, 3017-21	24	45
445	Effect of water-soluble phospholipid polymers conjugated with papain on the enzymatic stability. *Biomaterials*, **2004**, 25, 71-6	15.6	45
444	Synthesis of hydrophilic cross-linker having phosphorylcholine-like linkage for improvement of hydrogel properties. *Polymer*, **2004**, 45, 7499-7504	3.9	45
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440	Spherical phospholipid polymer hydrogels for cell encapsulation prepared with a flow-focusing microfluidic channel device. *Langmuir*, **2012**, 28, 2145-50	4	44
439	Chain dimension of polyampholytes in solution and immobilized brush states. *Polymer Journal*, **2012**, 44, 121-130	2.7	44
438	Cartilage-mimicking, high-density brush structure improves wear resistance of crosslinked polyethylene: a pilot study. *Clinical Orthopaedics and Related Research*, **2011**, 469, 2327-36	2.2	44
437	Superlubricious surface mimicking articular cartilage by grafting poly(2-methacryloyloxyethyl phosphorylcholine) on orthopaedic metal bearings. *Journal of Biomedical Materials Research - Part A* , **2009**, 91, 730-41	5.4	44
436	Effect of 2-methacryloyloxyethyl phosphorylcholine concentration on photo-induced graft polymerization of polyethylene in reducing the wear of orthopaedic bearing surface. *Journal of Biomedical Materials Research - Part A*, **2008**, 86, 439-47	5.4	44
435	Evaluation of the durability and antiadhesive action of 2-methacryloyloxyethyl phosphorylcholine grafting on an acrylic resin denture base material. *Journal of Prosthetic Dentistry*, **2014**, 112, 194-203	4	43

434	Detailed study of the reversible addition–fragmentation chain transfer polymerization and co-polymerization of 2-methacryloyloxyethyl phosphorylcholine. *Polymer Chemistry*, **2011**, 2, 632-639	4.9	43
433	Improvement of blood compatibility on cellulose hemodialysis membrane: IV. Phospholipid polymer bonded to the membrane surface. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 271-82	3.5	43
432	Synthesis of polymers having a phospholipid polar group connected to a poly(oxyethylene) chain and their protein adsorption-resistance properties. *Journal of Polymer Science Part A*, **1996**, 34, 199-205	2.5	43
431	Quantitative evaluation of interaction force between functional groups in protein and polymer brush surfaces. *Langmuir*, **2014**, 30, 2745-51	4	42
430	The effect of the encapsulation of bacteria in redox phospholipid polymer hydrogels on electron transfer efficiency in living cell-based devices. *Biomaterials*, **2012**, 33, 8221-7	15.6	42
429	Fabrication of a cell-adhesive protein imprinting surface with an artificial cell membrane structure for cell capturing. *Biosensors and Bioelectronics*, **2009**, 25, 609-14	11.8	42
428	Surface immobilization of biocompatible phospholipid polymer multilayered hydrogel on titanium alloy. *Colloids and Surfaces B: Biointerfaces*, **2008**, 67, 216-23	6	42
427	Regulation of cell proliferation by multi-layered phospholipid polymer hydrogel coatings through controlled release of paclitaxel. *Biomaterials*, **2012**, 33, 954-61	15.6	41
426	Design of functional hollow fiber membranes modified with phospholipid polymers for application in total hemopurification system. *Biomaterials*, **2005**, 26, 5032-41	15.6	41
425	Extracellular electron transfer across bacterial cell membranes via a cytocompatible redox-active polymer. *ChemPhysChem*, **2013**, 14, 2159-63	3.2	40
424	Suppression of protein adsorption on a charged phospholipid polymer interface. *Biomacromolecules*, **2009**, 10, 267-74	6.9	40
423	The characteristics of spontaneously forming physically cross-linked hydrogels composed of two water-soluble phospholipid polymers for oral drug delivery carrier I: hydrogel dissolution and insulin release under neutral pH condition. *European Journal of Pharmaceutical Sciences*, **2004**, 23, 261-70	5.1	40
422	Photo-induced change in wettability and binding ability of azoaromatic polymers. *Journal of Applied Polymer Science*, **1982**, 27, 239-245	2.9	40
421	Preparation of a thick polymer brush layer composed of poly(2-methacryloyloxyethyl phosphorylcholine) by surface-initiated atom transfer radical polymerization and analysis of protein adsorption resistance. *Colloids and Surfaces B: Biointerfaces*, **2016**, 141, 507-512	6	39
420	Neutron reflectivity study of the swollen structure of polyzwitterion and polyeletrolyte brushes in aqueous solution. *Journal of Biomaterials Science, Polymer Edition*, **2014**, 25, 1673-86	3.5	39
419	Stress response of adherent cells on a polymer blend surface composed of a segmented polyurethane and MPC copolymers. *Journal of Biomedical Materials Research - Part A*, **2006**, 79, 476-84	5.4	39
418	Degradation of phospholipid polymer hydrogel by hydrogen peroxide aiming at insulin release device. *Biomaterials*, **2003**, 24, 5183-90	15.6	39
417	Synthesis of graft copolymers having phospholipid polar group by macromonomer method and their properties in water. *Journal of Polymer Science Part A*, **1994**, 32, 859-867	2.5	39

416	Preparation and characterization of polyion complex micelles with phosphobetaine shells. *Langmuir* , **2013**, 29, 9651-61	4	38
415	Elastic repulsion from polymer brush layers exhibiting high protein repellency. *Langmuir*, **2013**, 29, 10752-8	4	38
414	Reduced Blood Cell Adhesion on Polypropylene Substrates through a Simple Surface Zwitterionization. *Langmuir*, **2017**, 33, 611-621	4	38
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