Masahiro Goto

List of Publications by Citations

417 papers	11,210 citations	52 h-index	86 g-index
429 ext. papers	12,530 ext. citations	4.3 avg, IF	6.68 L-index

#	Paper	IF	Citations
417	Recent advances of enzymatic reactions in ionic liquids. *Biochemical Engineering Journal*, **2010**, 48, 295-314	4.2	392
416	CO2 separation facilitated by task-specific ionic liquids using a supported liquid membrane. *Journal of Membrane Science*, **2008**, 314, 1-4	9.6	265
415	Cancer cell death induced by the intracellular self-assembly of an enzyme-responsive supramolecular gelator. *Journal of the American Chemical Society*, **2015**, 137, 770-5	16.4	257
414	Feasibility of Ionic Liquids as Alternative Separation Media for Industrial Solvent Extraction Processes. *Industrial & Engineering Chemistry Research*, **2005**, 44, 4368-4372	3.9	237
413	Ionic liquid pretreatment as emerging approaches for enhanced enzymatic hydrolysis of lignocellulosic biomass. *Biochemical Engineering Journal*, **2016**, 109, 252-267	4.2	225
412	Solvent extraction and stripping of silver ions in room-temperature ionic liquids containing calixarenes. *Analytical Chemistry*, **2004**, 76, 5039-44	7.8	221
411	Ionic liquids as a novel solvent for lanthanide extraction. *Analytical Sciences*, **2003**, 19, 1097-8	1.7	219
410	Activation and stabilization of enzymes in ionic liquids. *Organic and Biomolecular Chemistry*, **2010**, 8, 2887-99	3.9	188
409	Selective extraction and recovery of rare earth metals from phosphor powders in waste fluorescent lamps using an ionic liquid system. *Journal of Hazardous Materials*, **2013**, 254-255, 79-88	12.8	182
408	Ionic liquid-assisted transdermal delivery of sparingly soluble drugs. *Chemical Communications*, **2010**, 46, 1452-4	5.8	178
407	Enzymatic in situ saccharification of cellulose in aqueous-ionic liquid media. *Biotechnology Letters*, **2008**, 30, 1037-40	3	173
406	Ionic liquid-in-oil microemulsion as a potential carrier of sparingly soluble drug: characterization and cytotoxicity evaluation. *International Journal of Pharmaceutics*, **2010**, 400, 243-50	6.5	164
405	Ionic liquids as a potential tool for drug delivery systems. *MedChemComm*, **2016**, 7, 1881-1897	5	162
404	Ionic liquid based microemulsion with pharmaceutically accepted components: Formulation and potential applications. *Journal of Colloid and Interface Science*, **2010**, 352, 136-42	9.3	145
403	Water-in-ionic liquid microemulsions as a new medium for enzymatic reactions. *Green Chemistry*, **2008**, 10, 497	10	130
402	Recent advances in exploiting ionic liquids for biomolecules: Solubility, stability and applications. *Biotechnology Journal*, **2016**, 11, 1000-13	5.6	122
401	Development of new surfactant for liquid surfactant membrane process.. *Journal of Chemical Engineering of Japan*, **1987**, 20, 157-164	0.8	113

400	Solvent Extraction of Trivalent Rare Earth Metal Ions with Carboxylate Derivatives of Calixarenes.. *Analytical Sciences*, **1995**, 11, 893-902	1.7	107
399	Crown ether-mediated extraction and functional conversion of cytochrome C in ionic liquids. *Biomacromolecules*, **2006**, 7, 2-5	6.9	93
398	Extractive solubilization, structural change, and functional conversion of cytochrome c in ionic liquids via crown ether complexation. *Analytical Chemistry*, **2006**, 78, 7735-42	7.8	91
397	Ionic Liquids: Future Solvents and Reagents for Pharmaceuticals. *Journal of Chemical Engineering of Japan*, **2011**, 44, 370-381	0.8	89
396	Enzymatic Esterification by Surfactant-Coated Lipase in Organic Media. *Biotechnology Progress*, **1994**, 10, 263-268	2.8	87
395	A solid-in-oil nanodispersion for transcutaneous protein delivery. *Journal of Controlled Release*, **2008**, 131, 14-8	11.7	80
394	Formation of reverse micelles in a room-temperature ionic liquid. *ChemPhysChem*, **2008**, 9, 689-92	3.2	80
393	An enteric-coated dry emulsion formulation for oral insulin delivery. *Journal of Controlled Release*, **2005**, 107, 91-6	11.7	80
392	Recent Advances in Extraction and Separation of Rare-Earth Metals Using Ionic Liquids. *Journal of Chemical Engineering of Japan*, **2011**, 44, 679-685	0.8	76
391	Versatile supramolecular gelators that can harden water, organic solvents and ionic liquids. *Langmuir*, **2012**, 28, 9259-66	4	73
390	Hypoglycemic effect of surfactant-coated insulin solubilized in a novel solid-in-oil-in-water (S/O/W) emulsion. *International Journal of Pharmaceutics*, **2003**, 252, 271-4	6.5	72
389	Proteinase-mediated drastic morphological change of peptide-amphiphile to induce supramolecular hydrogelation. *Chemical Communications*, **2010**, 46, 979-81	5.8	71
388	Proteins and protein-rich biomass as environmentally friendly adsorbents selective for precious metal ions. *Environmental Science & Technology*, **2007**, 41, 1359-64	10.3	71
387	Ionic-Liquid-Based Paclitaxel Preparation: A New Potential Formulation for Cancer Treatment. *Molecular Pharmaceutics*, **2018**, 15, 2484-2488	5.6	71
386	Metal ion imprinted microsphere prepared by surface molecular imprinting technique using water-in-oil-in-water emulsions. *Journal of Applied Polymer Science*, **1999**, 73, 1223-1230	2.9	70
385	Surfactant-Coated Lipase Suitable for the Enzymatic Resolution of Menthol as a Biocatalyst in Organic Media. *Biotechnology Progress*, **1995**, 11, 270-275	2.8	70
384	Enzyme-facilitated enantioselective transport of (S)-ibuprofen through a supported liquid membrane based on ionic liquids. *Chemical Communications*, **2003**, 2926-7	5.8	68
383	Extraction behavior and separation of lanthanides with a diglycol amic acid derivative and a nitrogen-donor ligand. *Analytical Sciences*, **2007**, 23, 1427-30	1.7	66

382	Poly(ethylene glycol)-lipase complexes that are highly active and enantioselective in ionic liquids. *Organic and Biomolecular Chemistry*, **2004**, 2, 1239-44	3.9	66
381	Poly(ethylene glycol)-lipase complex that is catalytically active for alcoholysis reactions in ionic liquids. *Biotechnology Letters*, **2002**, 24, 1341-1345	3	66
380	Comb-shaped poly(ethylene glycol)-modified subtilisin Carlsberg is soluble and highly active in ionic liquids. *Chemical Communications*, **2005**, 4297-9	5.8	65
379	Biocompatible ionic liquids and their applications in pharmaceutics. *Green Chemistry*, **2020**, 22, 8116-8139	10	65
378	Synthesis and characterization of choline-fatty-acid-based ionic liquids: A new biocompatible surfactant. *Journal of Colloid and Interface Science*, **2019**, 551, 72-80	9.3	64
377	A novel solid-in-oil nanosuspension for transdermal delivery of diclofenac sodium. *Pharmaceutical Research*, **2008**, 25, 896-901	4.5	64
376	Short time ionic liquids pretreatment on lignocellulosic biomass to enhance enzymatic saccharification. *Bioresource Technology*, **2012**, 103, 446-52	11	62
375	Antigen delivery targeted to tumor-associated macrophages overcomes tumor immune resistance. *Journal of Clinical Investigation*, **2019**, 129, 1278-1294	15.9	62
374	Application of Ionic Liquids to Extraction Separation of Rare Earth Metals with an Effective Diglycol Amic Acid Extractant. *Journal of Chemical Engineering of Japan*, **2011**, 44, 307-312	0.8	61
373	Design of surfactants suitable for surfactant coated enzymes as catalysts in organic media.. *Journal of Chemical Engineering of Japan*, **1993**, 26, 109-111	0.8	58
372	Site-specific protein cross-linking by peroxidase-catalyzed activation of a tyrosine-containing peptide tag. *Bioconjugate Chemistry*, **2011**, 22, 74-81	6.3	57
371	Use of ionic liquids in a lipase-facilitated supported liquid membrane. *Biotechnology Letters*, **2003**, 25, 805-8	3	57
370	An enzymatic method for site-specific labeling of recombinant proteins with oligonucleotides. *Chemical Communications*, **2007**, 401-3	5.8	55
369	Intermittent partition walls promote solvent extraction of metal ions in a microfluidic device. *Analyst, The*, **2004**, 129, 1008	5	54
368	EXTRACTION OF RARE EARTH METALS WITH 2-ETHYLHEXYL PHOSPHONIC ACID MONO-2-ETHYLHEXYL ESTER IN THE PRESENCE OF DIETHYLENETRIAMINEPENTAACETIC ACID IN AQUEOUS PHASE. *Solvent Extraction and Ion Exchange*, **1993**, 11, 437-453	2.5	54
367	Enzymatic interesterification of triglyceride with surfactant-coated lipase in organic media. *Biotechnology and Bioengineering*, **1995**, 45, 27-32	4.9	54
366	Electrical demulsification of W/O emulsion by continuous tubular coalescer.. *Journal of Chemical Engineering of Japan*, **1989**, 22, 401-406	0.8	54
365	Easy removing of phenol from wastewater using vegetable oil-based organic solvent in emulsion liquid membrane process. *Chinese Journal of Chemical Engineering*, **2017**, 25, 45-52	3.2	52

364	Application of cellulose acetate to the selective adsorption and recovery of Au(III). *Carbohydrate Polymers*, **2014**, 111, 768-74	10.3	52
363	Design of surfactants suitable for protein extraction by reversed micelles. *Biotechnology and Bioengineering*, **1997**, 54, 26-32	4.9	52
362	Selective Recovery of Dysprosium and Neodymium Ions by a Supported Liquid Membrane Based on Ionic Liquids. *Solvent Extraction Research and Development*, **2011**, 18, 193-198	0.7	51
361	Characterization and cytotoxicity evaluation of biocompatible amino acid esters used to convert salicylic acid into ionic liquids. *International Journal of Pharmaceutics*, **2018**, 546, 31-38	6.5	50
360	Uphill transport of rare-earth metals through a highly stable supported liquid membrane based on an ionic liquid. *Analytical Sciences*, **2010**, 26, 289-90	1.7	50
359	Enzyme encapsulation in microparticles composed of polymerized ionic liquids for highly active and reusable biocatalysts. *Organic and Biomolecular Chemistry*, **2009**, 7, 2353-8	3.9	49
358	Homogeneous enzymatic reactions in ionic liquids with poly(ethylene glycol)-modified subtilisin. *Organic and Biomolecular Chemistry*, **2006**, 4, 3462-7	3.9	49
357	Biodegradation of phenolic environmental pollutants by a surfactant-laccase complex in organic media. *Journal of Bioscience and Bioengineering*, **2005**, 99, 642-7	3.3	49
356	Enzymatic preparation of a redox-responsive hydrogel for encapsulating and releasing living cells. *Chemical Communications*, **2014**, 50, 5895-8	5.8	48
355	Ionic liquids with methotrexate moieties as a potential anticancer prodrug: Synthesis, characterization and solubility evaluation. *Journal of Molecular Liquids*, **2019**, 278, 226-233	6	47
354	A binary mixture of a biosurfactant and an ionic liquid surfactant as a green dispersant for oil spill remediation. *Journal of Molecular Liquids*, **2019**, 280, 111-119	6	47
353	Application of Ionic Liquids for the Separation of Rare Earth Metals. *Solvent Extraction Research and Development*, **2012**, 19, 17-28	0.7	47
352	Design of a specific peptide tag that affords covalent and site-specific enzyme immobilization catalyzed by microbial transglutaminase. *Biomacromolecules*, **2005**, 6, 2299-304	6.9	46
351	Highly efficient extraction separation of lanthanides using a diglycolamic acid extractant. *Analytical Sciences*, **2014**, 30, 263-9	1.7	45
350	Exploring enzymatic catalysis at a solid surface: a case study with transglutaminase-mediated protein immobilization. *Organic and Biomolecular Chemistry*, **2007**, 5, 1764-70	3.9	45
349	Enzymatic polymerization catalyzed by surfactant-coated lipases in organic media. *Biotechnology Letters*, **1997**, 19, 307-310	3	44
348	Metal-imprinted microsphere prepared by surface template polymerization and its application to chromatography. *Journal of Polymer Science Part A*, **2000**, 38, 689-696	2.5	43
347	Highly enantioselective separation using a supported liquid membrane encapsulating surfactant-enzyme complex. *Journal of the American Chemical Society*, **2004**, 126, 8622-3	16.4	42

346	Synthesis of cellulose in vitro by using a cellulase/surfactant complex in a nonaqueous medium. *Angewandte Chemie - International Edition*, **2007**, 46, 2063-5	16.4	41
345	Extraction behavior of hemoglobin using reversed micelles by dioleyl phosphoric acid. *Biotechnology Progress*, **1996**, 12, 793-800	2.8	41
344	Selective extraction of scandium from yttrium and lanthanides with amic acid-type extractant containing alkylamide and glycine moieties. *RSC Advances*, **2014**, 4, 50726-50730	3.7	40
343	Extraction Behavior of Amino Acids by Calix[6]arene Carboxylic Acid Derivatives. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2002**, 43, 77-86		40
342	Recovery of gold ions from discarded mobile phone leachate by solvent extraction and polymer inclusion membrane (PIM) based separation using an amic acid extractant. *Separation and Purification Technology*, **2019**, 214, 156-161	8.3	40
341	Biocompatible Ionic Liquid Surfactant-Based Microemulsion as a Potential Carrier for Sparingly Soluble Drugs. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 6263-6272	8.3	39
340	A recombinant Escherichia coli whole cell biocatalyst harboring a cytochrome P450cam monooxygenase system coupled with enzymatic cofactor regeneration. *Applied Microbiology and Biotechnology*, **2006**, 72, 514-20	5.7	39
339	Selective Separation of Pd(II), Rh(III), and Ru(III) Ions from a Mixed Chloride Solution Using Activated Carbon Pellets. *Separation Science and Technology*, **2000**, 35, 1307-1327	2.5	39
338	Extraction Kinetics of Rare Earth Metals with 2-Ethylhexyl Phosphonic Acid Mono-2-ethylhexyl Ester Using a Hollow Fiber Membrane Extractor. *Separation Science and Technology*, **1995**, 30, 777-792	2.5	39
337	Protein heteroconjugation by the peroxidase-catalyzed tyrosine coupling reaction. *Bioconjugate Chemistry*, **2011**, 22, 2332-8	6.3	38
336	Ionic liquid-mediated transcutaneous protein delivery with solid-in-oil nanodispersions. *MedChemComm*, **2015**, 6, 2124-2128	5	37
335	Recent advances of enzymatic reactions in ionic liquids: Part II. *Biochemical Engineering Journal*, **2020**, 154, 107426	4.2	37
334	Solvent extraction of Pt(IV), Pd(II), and Rh(III) with the ionic liquid trioctyl(dodecyl) phosphonium chloride. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 1714-1721	3.5	36
333	Solubility of acyclovir in nontoxic and biodegradable ionic liquids: COSMO-RS prediction and experimental verification. *Journal of Molecular Liquids*, **2017**, 243, 124-131	6	36
332	A solid-in-oil dispersion of gold nanorods can enhance transdermal protein delivery and skin vaccination. *Small*, **2011**, 7, 215-20	11	36
331	Transglutaminase-mediated protein immobilization to casein nanolayers created on a plastic surface. *Biomacromolecules*, **2005**, 6, 35-8	6.9	36
330	Oral delivery of diclofenac sodium using a novel solid-in-oil suspension. *International Journal of Pharmaceutics*, **2006**, 313, 159-62	6.5	36
329	Activation of lipase in ionic liquids by modification with comb-shaped poly(ethylene glycol). *Science and Technology of Advanced Materials*, **2006**, 7, 692-698	7.1	36

328	Production of sophorolipids by Starmerella bombicola yeast using new hydrophobic substrates. *Biochemical Engineering Journal*, **2017**, 127, 60-67	4.2	35
327	Great potency of seaweed waste biomass from the carrageenan industry for bioethanol production by peracetic acid□onic liquid pretreatment. *Biomass and Bioenergy*, **2015**, 81, 63-69	5.3	35
326	Transglutaminase-mediated synthesis of a DNA-(enzyme)n probe for highly sensitive DNA detection. *Chemistry - A European Journal*, **2011**, 17, 5387-92	4.8	35
325	Novel preparation method for surfactant-lipase complexes utilizing water in oil emulsions. *Biotechnology and Bioengineering*, **1997**, 55, 455-60	4.9	35
324	First Application of Calixarenes as Extractants in Room-temperature Ionic Liquids. *Chemistry Letters* , **2004**, 33, 320-321	1.7	35
323	Separation of platinum and palladium by liquid surfactant membranes utilizing a novel bi-functional surfactant. *Journal of Membrane Science*, **1996**, 120, 77-88	9.6	35
322	Ionic Liquid-In-Oil Microemulsions Prepared with Biocompatible Choline Carboxylic Acids for Improving the Transdermal Delivery of a Sparingly Soluble Drug. *Pharmaceutics*, **2020**, 12,	6.4	34
321	Lanthanide-Imprinted Resins Prepared by Surface Template Polymerization.. *Journal of Chemical Engineering of Japan*, **2000**, 33, 665-668	0.8	34
320	Liquid-Liquid Extraction of Metal Ions with a Cyclic Ligand Calixarene Carboxyl Derivative.. *Analytical Sciences*, **1998**, 14, 501-506	1.7	34
319	Development of a novel ionic liquid-curcumin complex to enhance its solubility, stability, and activity. *Chemical Communications*, **2019**, 55, 7737-7740	5.8	33
318	Selective adsorption and recovery of precious metal ions using protein-rich biomass as efficient adsorbents. *Process Biochemistry*, **2014**, 49, 850-857	4.8	33
317	Transdermal delivery of the anti-rheumatic agent methotrexate using a solid-in-oil nanocarrier. *European Journal of Pharmaceutics and Biopharmaceutics*, **2012**, 82, 158-63	5.7	33
316	Surface modification of a solid-state cellulose matrix with lactose by a surfactant-enveloped enzyme in a nonaqueous medium. *Journal of Materials Chemistry*, **2009**, 19, 1836		33
315	An Overview on the Toxicological Properties of Ionic Liquids toward Microorganisms. *Biotechnology Journal*, **2020**, 15, e1900073	5.6	33
314	Ionic liquids with N-methyl-2-pyrrolidonium cation as an enhancer for topical drug delivery: Synthesis, characterization, and skin-penetration evaluation. *Journal of Molecular Liquids*, **2020**, 299, 112166	6	33
313	Gold nanorods in an oil-base formulation for transdermal treatment of type 1 diabetes in mice. *Nanoscale*, **2012**, 4, 3776-80	7.7	31
312	Catalytic and structural properties of surfactant-horseradish peroxidase complex in organic media. *Biotechnology Progress*, **2000**, 16, 52-8	2.8	31
311	Acceleration effect of anionic surfactants on extraction rate of copper with liquid surfactant membrane containing LIX65N and nonionic surfactant.. *Journal of Chemical Engineering of Japan*, **1989**, 22, 79-84	0.8	31

310	Powerful peracetic acid-ionic liquid pretreatment process for the efficient chemical hydrolysis of lignocellulosic biomass. *Bioresource Technology*, **2016**, 214, 487-495	11	31
309	Selective transport of scandium(III) across polymer inclusion membranes with improved stability which contain an amic acid carrier. *Journal of Membrane Science*, **2019**, 572, 291-299	9.6	31
308	Lipase incorporated ionic liquid polymers as active, stable and reusable biocatalysts. *Organic and Biomolecular Chemistry*, **2012**, 10, 7707-13	3.9	30
307	Protein lipidation catalyzed by microbial transglutaminase. *Chemistry - A European Journal*, **2011**, 17, 14004-8	4.8	29
306	Transcutaneous immunization by a solid-in-oil nanodispersion. *Chemical Communications*, **2010**, 46, 9200-2	5.8	29
305	Aggregation behavior and antimicrobial activity of a micellar system of binary ionic liquids. *Journal of Molecular Liquids*, **2018**, 266, 568-576	6	29
304	Separation of cobalt(II) from manganese(II) using a polymer inclusion membrane with N-[N,N-di(2-ethylhexyl)aminocarbonylmethyl]glycine (D2EHAG) as the extractant/carrier. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 1320-1326	3.5	28
303	A Comparative Study of Ionic Liquids and a Conventional Organic Solvent on the Extraction of Rare-earth Ions with TOPO. *Solvent Extraction Research and Development*, **2013**, 20, 225-232	0.7	28
302	Preparation of lactose-modified cellulose films by a nonaqueous enzymatic reaction and their biofunctional characteristics as a scaffold for cell culture. *Biomacromolecules*, **2009**, 10, 1265-9	6.9	28
301	Surfactant-horseradish peroxidase complex catalytically active in anhydrous benzene. *Biotechnology Letters*, **1997**, 11, 375-378		28
300	Surface imprinted polymers recognizing amino acid chirality. *Journal of Applied Polymer Science*, **2000**, 78, 695-703	2.9	28
299	Selective recovery of palladium from a simulated industrial waste water by liquid surfactant membrane process. *Journal of Membrane Science*, **1996**, 118, 63-71	9.6	28
298	How Is Enzymatic Selectivity of Menthol Esterification Catalyzed by Surfactant-Coated Lipase Determined in Organic Media?. *Biotechnology Progress*, **1997**, 13, 488-492	2.8	27
297	Sequence-selective extraction of single-stranded DNA using DNA-functionalized reverse micelles. *Chemical Communications*, **2007**, 4450-2	5.8	27
296	Solvent Extraction of Lanthanides into an Ionic Liquid ContainingN,N,N?,N?-Tetrakis(2-pyridylmethyl)ethylenediamine. *Chemistry Letters*, **2006**, 35, 484-485	1.7	27
295	Characterization and catalytic property of surfactant-laccase complex in organic media. *Biotechnology Progress*, **2000**, 16, 583-8	2.8	27
294	Synergistic Extraction of Rare-Earth Metals and Separation of Scandium Using 2-Thenoyltrifluoroacetone and Tri-n-octylphosphine Oxide in an Ionic Liquid System. *Journal of Chemical Engineering of Japan*, **2014**, 47, 656-662	0.8	26
293	Solid-in-oil dispersion: a novel core technology for drug delivery systems. *International Journal of Pharmaceutics*, **2012**, 438, 249-57	6.5	26

292	Low melting point pyridinium ionic liquid pretreatment for enhancing enzymatic saccharification of cellulosic biomass. *Bioresource Technology*, **2013**, 135, 103-8	11	26
291	EXTRACTION BEHAVIOR OF COPPER(II) ION BY CALIXARENE CARBOXYLATE DERIVATIVES PREORGANIZED BY SODIUM ION. *Solvent Extraction and Ion Exchange*, **1996**, 14, 459-478	2.5	26
290	Protein-Grafted Polymers Prepared Through a Site-Specific Conjugation by Microbial Transglutaminase for an Immunosorbent Assay. *Biomacromolecules*, **2017**, 18, 422-430	6.9	25
289	Poly(ethylene glycol)-lipase complexes catalytically active in fluorous solvents. *Organic and Biomolecular Chemistry*, **2004**, 2, 524-7	3.9	25
288	Enzymatic resolution of racemic ibuprofen by surfactant-coated lipases in organic media. *Biotechnology Letters*, **1996**, 18, 839-844	3	25
287	Extraction of DNA by Reversed Micelles.. *Journal of Chemical Engineering of Japan*, **1999**, 32, 123-125	0.8	25
286	Choline and amino acid based biocompatible ionic liquid mediated transdermal delivery of the sparingly soluble drug acyclovir. *International Journal of Pharmaceutics*, **2020**, 582, 119335	6.5	25
285	In vivo biocompatibility, pharmacokinetics, antitumor efficacy, and hypersensitivity evaluation of ionic liquid-mediated paclitaxel formulations. *International Journal of Pharmaceutics*, **2019**, 565, 219-226	6.5	24
284	Application of a Novel Phosphonium-Based Ionic Liquid to the Separation of Platinum Group Metals from Automobile Catalyst Leach Liquor. *Industrial & Engineering Chemistry Research*, **2019**, 58, 3845-3852	3.9	24
283	Solid-in-oil nanodispersions for transdermal drug delivery systems. *Biotechnology Journal*, **2016**, 11, 1375-1385	5.6	24
282	Conjugation of DNA with protein using His-tag chemistry and its application to the aptamer-based detection system. *Biotechnology Letters*, **2008**, 30, 2001-6	3	24
281	Surfactant-protease complex as a novel biocatalyst for peptide synthesis in hydrophilic organic solvents*. *Enzyme and Microbial Technology*, **2000**, 26, 159-164	3.8	24
280	Design and Characterization of Fatty Acid-Based Amino Acid Ester as a New Green Hydrophobic Ionic Liquid for Drug Delivery. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13660-13671	8.3	24
279	Genipin-stabilized caseinate-chitosan nanoparticles for enhanced stability and anti-cancer activity of curcumin. *Colloids and Surfaces B: Biointerfaces*, **2018**, 164, 308-315	6	23
278	Separation of Precious Metals by Using Undiluted Ionic Liquids. *Solvent Extraction Research and Development*, **2014**, 21, 89-94	0.7	23
277	Application of Novel Preparation Method for Surfactant-Protease Complexes Catalytically Active in Organic Media. *Biotechnology Progress*, **1997**, 13, 551-556	2.8	23
276	Surfactant-chymotrypsin complex as a novel biocatalyst in organic media. *Journal of Bioscience and Bioengineering*, **1997**, 83, 555-560		23
275	DNA Extraction by Cationic Reverse Micelles. *Journal of Chemical Engineering of Japan*, **2004**, 37, 662-668	0.8	23

274	Important parameters affecting efficiency of protein refolding by reversed micelles. *Biotechnology Progress*, **2000**, 16, 1079-85	2.8	23
273	Sucrose laurate-enhanced transcutaneous immunization with a solid-in-oil nanodispersion. *MedChemComm*, **2014**, 5, 20-24	5	22
272	Primary Amine-Clustered DNA Aptamer for DNA-Protein Conjugation Catalyzed by Microbial Transglutaminase. *Bioconjugate Chemistry*, **2017**, 28, 2954-2961	6.3	22
271	Peracetic acid-ionic liquid pretreatment to enhance enzymatic saccharification of lignocellulosic biomass. *Bioresource Technology*, **2013**, 138, 87-94	11	22
270	Immobilization of alkaline phosphatase on magnetic particles by site-specific and covalent cross-linking catalyzed by microbial transglutaminase. *Journal of Bioscience and Bioengineering*, **2011**, 111, 650-3	3.3	22
269	Direct refolding of inclusion bodies using reversed micelles. *Biotechnology Progress*, **2004**, 20, 1783-7	2.8	22
268	One Step Effective Separation of Platinum and Palladium in an Acidic Chloride Solution by Using Undiluted Ionic Liquids. *Solvent Extraction Research and Development*, **2014**, 21, 129-135	0.7	22
267	Screening of ionic liquids for the extraction of biologically active compounds using emulsion liquid membrane: COSMO-RS prediction and experiments. *Journal of Molecular Liquids*, **2020**, 309, 113122	6	22
266	Solid-in-Oil Peptide Nanocarriers for Transcutaneous Cancer Vaccine Delivery against Melanoma. *Molecular Pharmaceutics*, **2018**, 15, 955-961	5.6	21
265	Transglutaminase-mediated in situ hybridization (TransISH) system: a new methodology for simplified mRNA detection. *Analytical Chemistry*, **2012**, 84, 5885-91	7.8	21
264	Extraction and Separation of Rare Earth Metal Ions with DODGAA in Ionic liquids. *Solvent Extraction Research and Development*, **2012**, 19, 69-76	0.7	21
263	Spatial heterogeneity in the sol–gel transition of a supramolecular system. *Soft Matter*, **2013**, 9, 5166	3.6	21
262	Preparation of a solid-in-oil nanosuspension containing L-ascorbic acid as a novel long-term stable topical formulation. *International Journal of Pharmaceutics*, **2011**, 420, 156-60	6.5	21
261	Design of a cytochrome P450BM3 reaction system linked by two-step cofactor regeneration catalyzed by a soluble transhydrogenase and glycerol dehydrogenase. *Biotechnology Progress*, **2009**, 25, 1372-8	2.8	21
260	Directed aggregation and fusion of lipid vesicles induced by DNA-surfactants. *Colloids and Surfaces B: Biointerfaces*, **2008**, 66, 119-24	6	21
259	Surface imprinting polymers for the recognition of nucleotides. *Bioseparation*, **2001**, 10, 315-21		21
258	ADSORPTION PERFORMANCE OF ACTIVATED CARBON PELLETS IMMOBILIZED WITH ORGANOPHOSPHORUS EXTRACTANTS AND AN AMINE: A CASE STUDY FOR THE SEPARATION OF Pt(IV), Pd(II), AND Rh(III) IONS IN CHLORIDE MEDIA. *Separation Science and Technology*, **2001**, 36, 2845-2861	2.5	21
257	Controllable heterogeneity in a supramolecular hydrogel. *Chemical Communications*, **2011**, 47, 8844-6	5.8	20

256	Fluorescent substrates for covalent protein labeling catalyzed by microbial transglutaminase. *Organic and Biomolecular Chemistry*, **2009**, 7, 3407-12	3.9	20
255	Electron-transfer reactions and functionalization of cytochrome P450cam monooxygenase system in reverse micelles. *Langmuir*, **2004**, 20, 5564-8	4	20
254	DNA hybridization in nanostructural molecular assemblies enables detection of gene mutations without a fluorescent probe. *Biomacromolecules*, **2004**, 5, 49-53	6.9	20
253	Transport of organic acids through a supported liquid membrane driven by lipase-catalyzed reactions. *Journal of Bioscience and Bioengineering*, **2003**, 96, 370-4	3.3	20
252	Development of Novel Extractants with Amino Acid Structure for Efficient Separation of Nickel and Cobalt from Manganese Ions. *Industrial & Engineering Chemistry Research*, **2014**, 53, 812-818	3.9	20
251	Synergistic degradation of arabinoxylan by free and immobilized xylanases and arabinofuranosidase. *Biochemical Engineering Journal*, **2016**, 114, 268-275	4.2	20
250	Intestinal patches with an immobilized solid-in-oil formulation for oral protein delivery. *Acta Biomaterialia*, **2012**, 8, 653-8	10.8	19
249	Spacer effect of novel bifunctional organophosphorus monomers in metal-imprinted polymers prepared by surface template polymerization. *Journal of Polymer Science Part A*, **1998**, 36, 2727-2734	2.5	19
248	An enzymatic strategy for site-specific immobilization of functional proteins using microbial transglutaminase. *Enzyme and Microbial Technology*, **2004**, 35, 613-618	3.8	19
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