Abraham Domb

List of Publications by Citations

458 papers	21,220 citations	70 h-index	127 g-index
487 ext. papers	23,207 ext. citations	6.1 avg, IF	6.94 L-index

#	Paper	IF	Citations
458	Chitosan chemistry and pharmaceutical perspectives. *Chemical Reviews*, **2004**, 104, 6017-84	68.1	2224
457	The controlled intravenous delivery of drugs using PEG-coated sterically stabilized nanospheres. *Advanced Drug Delivery Reviews*, **1995**, 16, 215-233	18.5	648
456	Disorder-to-Order Phase Transition and Multiple Melting Behavior of Poly(l-lactide) Investigated by Simultaneous Measurements of WAXD and DSC. *Macromolecules*, **2008**, 41, 1352-1357	5.5	622
455	Selective cell transplantation using bioabsorbable artificial polymers as matrices. *Journal of Pediatric Surgery*, **1988**, 23, 3-9	2.6	499
454	Mechanism of the Stereocomplex Formation between Enantiomeric Poly(lactide)s. *Macromolecules*, **1996**, 29, 191-197	5.5	460
453	Polymer carriers for drug delivery in tissue engineering. *Advanced Drug Delivery Reviews*, **2007**, 59, 187-206	18.5	371
452	Antibacterial activity of dental composites containing quaternary ammonium polyethylenimine nanoparticles against Streptococcus mutans. *Biomaterials*, **2006**, 27, 3995-4002	15.6	368
451	Polyanhydrides: an overview. *Advanced Drug Delivery Reviews*, **2002**, 54, 889-910	18.5	322
450	Biocompatibility and safety of PLA and its copolymers. *Advanced Drug Delivery Reviews*, **2016**, 107, 153-162	18.5	276
449	Antimicrobial polymers. *Advanced Healthcare Materials*, **2014**, 3, 1969-85	10.1	254
448	Biopolymer stereocomplexes. *Advanced Drug Delivery Reviews*, **2003**, 55, 549-83	18.5	245
447	Biodegradable block copolymers. *Advanced Drug Delivery Reviews*, **2001**, 53, 23-44	18.5	240
446	PEG-coated nanospheres from amphiphilic diblock and multiblock copolymers: Investigation of their drug encapsulation and release characteristics1. *Journal of Controlled Release*, **1997**, 46, 223-231	11.7	238
445	Mutant KRAS is a druggable target for pancreatic cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 20723-8	11.5	198
444	An in vitro quantitative antibacterial analysis of amalgam and composite resins. *Journal of Dentistry* , **2007**, 35, 201-6	4.8	194
443	Investigation of Phase Transitional Behavior of Poly(l-lactide)/Poly(d-lactide) Blend Used to Prepare the Highly-Oriented Stereocomplex. *Macromolecules*, **2007**, 40, 1049-1054	5.5	192
442	Synthesis of indazole motifs and their medicinal importance: an overview. *European Journal of Medicinal Chemistry*, **2015**, 90, 707-31	6.8	188

441	Polyanhydrides. I. Preparation of high molecular weight polyanhydrides. *Journal of Polymer Science Part A*, **1987**, 25, 3373-3386	2.5	180
440	RNAi therapy targeting KRAS in combination with chemotherapy for locally advanced pancreatic cancer patients. *Oncotarget*, **2015**, 6, 24560-70	3.3	170
439	Surface antimicrobial activity and biocompatibility of incorporated polyethylenimine nanoparticles. *Biomaterials*, **2008**, 29, 4157-63	15.6	170
438	Nanotechnology for biomaterials engineering: structural characterization of amphiphilic polymeric nanoparticles by 1H NMR spectroscopy. *Biomaterials*, **1997**, 18, 27-30	15.6	169
437	Biodegradable polymers□n overview. *Polymers for Advanced Technologies*, **2014**, 25, 427-435	3.2	161
436	Polymers for DNA delivery. *Molecules*, **2005**, 10, 34-64	4.8	157
435	Polysaccharide-oligoamine based conjugates for gene delivery. *Journal of Medicinal Chemistry*, **2002**, 45, 1817-24	8.3	152
434	Polysaccharide-Based Conjugates for Biomedical Applications. *Bioconjugate Chemistry*, **2015**, 26, 1396-412	3	143
433	Dextran-spermine polycation: an efficient nonviral vector for in vitro and in vivo gene transfection. *Gene Therapy*, **2004**, 11, 194-203	4	143
432	Iontophoresis: a non-invasive ocular drug delivery. *Journal of Controlled Release*, **2006**, 110, 479-89	11.7	142
431	Polyethyleneimine nanoparticles incorporated into resin composite cause cell death and trigger biofilm stress in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 22038-43	11.5	140
430	Role of polyanhydrides as localized drug carriers. *Journal of Controlled Release*, **2005**, 103, 541-63	11.7	138
429	The controlled intravenous delivery of drugs using PEG-coated sterically stabilized nanospheres. *Advanced Drug Delivery Reviews*, **2012**, 64, 316-326	18.5	127
428	Drug eluting stents: developments and current status. *Journal of Controlled Release*, **2012**, 161, 703-12	11.7	125
427	Confirmation of Disorder □Form of Poly(L-lactic acid) by the X-ray Fiber Pattern and Polarized IR/Raman Spectra Measured for Uniaxially-Oriented Samples. *Macromolecular Symposia*, **2006**, 242, 274-278	0.8	121
426	Lipoplex-induced hemagglutination: potential involvement in intravenous gene delivery. *Gene Therapy*, **2002**, 9, 850-8	4	121
425	Polyanhydride microspheres as drug carriers. II. Microencapsulation by solvent removal. *Journal of Applied Polymer Science*, **1988**, 35, 755-774	2.9	121
424	New techniques for drug delivery to the posterior eye segment. *Pharmaceutical Research*, **2010**, 27, 530-43	4	114

423	Ricinoleic acid-based biopolymers. *Journal of Biomedical Materials Research Part B*, **1999**, 45, 258-67		110
422	Biocompatibility of a biodegradable, controlled-release polymer in the rabbit brain. *Selective Cancer Therapeutics*, **1989**, 5, 55-65		109
421	Arabinogalactan-folic acid-drug conjugate for targeted delivery and target-activated release of anticancer drugs to folate receptor-overexpressing cells. *Biomacromolecules*, **2010**, 11, 294-303	6.9	103
420	Streptococcus mutans biofilm changes surface-topography of resin composites. *Dental Materials*, **2008**, 24, 732-6	5.7	103
419	Cationic Polysaccharides for Gene Delivery. *Macromolecules*, **2002**, 35, 9947-9953	5.5	100
418	Combination of 3D tissue engineered scaffold and non-viral gene carrier enhance in vitro DNA expression of mesenchymal stem cells. *Biomaterials*, **2006**, 27, 4269-78	15.6	97
417	PLLA Mesophase and Its Phase Transition Behavior in the PLLA-PEG-PLLA Copolymer As Revealed by Infrared Spectroscopy. *Macromolecules*, **2010**, 43, 4240-4246	5.5	95
416	Castor Oil-Based Biodegradable Polyesters. *Biomacromolecules*, **2015**, 16, 2572-87	6.9	94
415	Polysaccharide gene transfection agents. *Acta Biomaterialia*, **2012**, 8, 4224-32	10.8	94
414	Bioerodible polyanhydrides for antibiotic drug delivery: in vivo osteomyelitis treatment in a rat model system. *Journal of Orthopaedic Research*, **1993**, 11, 256-62	3.8	94
413	Injectable formulations of poly(lactic acid) and its copolymers in clinical use. *Advanced Drug Delivery Reviews*, **2016**, 107, 213-227	18.5	92
412	Antibacterial effect of composite resins containing quaternary ammonium polyethyleneimine nanoparticles. *Journal of Nanoparticle Research*, **2010**, 12, 591-603	2.3	92
411	Absorbable biopolymers derived from dimer fatty acids. *Journal of Polymer Science Part A*, **1993**, 31, 1275-1285	2.5	88
410	Co-delivery of rapamycin- and piperine-loaded polymeric nanoparticles for breast cancer treatment. *Drug Delivery*, **2016**, 23, 2608-2616	7	87
409	Self-nano-emulsifying drug delivery systems: an update of the biopharmaceutical aspects. *Expert Opinion on Drug Delivery*, **2015**, 12, 1121-33	8	87
408	Hydrophobized dextran-spermine conjugate as potential vector for in vitro gene transfection. *Journal of Controlled Release*, **2004**, 96, 309-23	11.7	87
407	Poly(ester anhydride)s prepared by the insertion of ricinoleic acid into poly(sebacic acid). *Journal of Polymer Science Part A*, **2003**, 41, 1059-1069	2.5	86
406	Gentamicin extended release from an injectable polymeric implant. *Journal of Controlled Release*, **2007**, 117, 90-6	11.7	85

405	Interstitial delivery of carboplatin via biodegradable polymers is effective against experimental glioma in the rat. *Cancer Chemotherapy and Pharmacology*, **1996**, 39, 90-6	3.5	84
404	Poly(anhydrides). 3. Poly(anhydrides) based on aliphatic-aromatic diacids. *Macromolecules*, **1989**, 22, 3200-3204	5.5	84
403	A novel injectable water-soluble amphotericin B-arabinogalactan conjugate. *Antimicrobial Agents and Chemotherapy*, **1999**, 43, 1975-81	5.9	83
402	Current developments in gene transfection agents. *Current Drug Delivery*, **2004**, 1, 165-93	3.2	83
401	Surface characterization and biocompatibility of restorative resin containing nanoparticles. *Biomacromolecules*, **2008**, 9, 3044-50	6.9	82
400	Biodegradable injectable in situ depot-forming drug delivery systems. *Macromolecular Bioscience*, **2006**, 6, 977-90	5.5	81
399	Surface Analysis of Biodegradable Polymer Blends of Poly(sebacic anhydride) and Poly(dl-lactic acid). *Macromolecules*, **1996**, 29, 2205-2212	5.5	81
398	Poly(lactic acid) based hydrogels. *Advanced Drug Delivery Reviews*, **2016**, 107, 192-205	18.5	80
397	Nanotechnology for water purification: applications of nanotechnology methods in wastewater treatment **2017**, 33-74		78
396	Impact of aldehyde content on amphotericin B-dextran imine conjugate toxicity. *Biomacromolecules* , **2006**, 7, 1529-35	6.9	77
395	Synthesis and characterization of novel water soluble amphotericin B-arabinogalactan conjugates. *Biomaterials*, **2002**, 23, 1327-35	15.6	75
394	Poly(sebacic acid-co-ricinoleic acid) biodegradable carrier for paclitaxel: in vitro release and in vivo toxicity. *Journal of Biomedical Materials Research Part B*, **2004**, 69, 47-54		74
393	Poly(anhydride) administration in high doses in vivo: studies of biocompatibility and toxicology. *Journal of Biomedical Materials Research Part B*, **1990**, 24, 1463-81		74
392	Preparation and characterization of n-alkanoic acid self-assembled monolayers adsorbed on 316L stainless steel. *Langmuir*, **2004**, 20, 7499-506	4	71
391	Biodegradable bone cement compositions based on acrylate and epoxide terminated poly(propylene fumarate) oligomers and calcium salt compositions. *Biomaterials*, **1996**, 17, 411-7	15.6	71
390	Tacrolimus and curcumin co-loaded liposphere gel: Synergistic combination towards management of psoriasis. *Journal of Controlled Release*, **2016**, 243, 132-145	11.7	71
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388	Bioactive acetylenic metabolites. *Phytomedicine*, **2013**, 20, 1145-59	6.5	69

387	Novel dextran-spermine conjugates as transfecting agents: comparing water-soluble and micellar polymers. *Gene Therapy*, **2005**, 12, 494-503	4	69
386	Poly(sebacic acid-co-ricinoleic acid) biodegradable injectable in situ gelling polymer. *Biomacromolecules*, **2006**, 7, 288-96	6.9	69
385	Chemical and Morphological Analysis of Surface Enrichment in a Biodegradable Polymer Blend by Phase-Detection Imaging Atomic Force Microscopy. *Macromolecules*, **1998**, 31, 2278-2283	5.5	69
384	Biodegradable polymers for targeted delivery of anti-cancer drugs. *Expert Opinion on Drug Delivery*, **2016**, 13, 891-909	8	68
383	Overview on natural hydrophilic polysaccharide polymers in drug delivery. *Polymers for Advanced Technologies*, **2018**, 29, 2564-2573	3.2	68
382	Lipospheres and pro-nano lipospheres for delivery of poorly water soluble compounds. *Chemistry and Physics of Lipids*, **2012**, 165, 438-53	3.7	68
381	Effectiveness of controlled release of a cyclophosphamide derivative with polymers against rat gliomas. *Journal of Neurosurgery*, **1995**, 82, 481-6	3.2	68
380	Lactic Acid and Ricinoleic Acid Based Copolyesters. *Macromolecules*, **2005**, 38, 5545-5553	5.5	67
379	Erosion of a new family of biodegradable polyanhydrides. *Journal of Biomedical Materials Research Part B*, **1994**, 28, 1465-75		67
378	Ectopic induction of cartilage and bone by water-soluble proteins from bovine bone using a polyanhydride delivery vehicle. *Journal of Biomedical Materials Research Part B*, **1990**, 24, 901-11		65
377	Noninvasive in vivo monitoring of drug release and polymer erosion from biodegradable polymers by EPR spectroscopy and NMR imaging. *Journal of Pharmaceutical Sciences*, **1997**, 86, 126-34	3.9	64
376	Improved oral bioavailability of BCS class 2 compounds by self nano-emulsifying drug delivery systems (SNEDDS): the underlying mechanisms for amiodarone and talinolol. *Pharmaceutical Research*, **2013**, 30, 3029-44	4.5	63
375	Long acting local anesthetic-polymer formulation to prolong the effect of analgesia. *Journal of Controlled Release*, **2007**, 117, 97-103	11.7	63
374	Cyclosporin nanoparticulate lipospheres for oral administration. *Journal of Pharmaceutical Sciences*, **2004**, 93, 1264-70	3.9	63
373	Macrolactones and polyesters from ricinoleic acid. *Biomacromolecules*, **2005**, 6, 1679-88	6.9	62
372	Poly(N-acryl amino acids): a new class of biologically active polyanions. *Journal of Medicinal Chemistry*, **2000**, 43, 2591-600	8.3	62
371	Charged nanoparticles delivery to the eye using hydrogel iontophoresis. *Journal of Controlled Release*, **2008**, 126, 156-61	11.7	61
370	Fatty Acid Based Biodegradable Polymer. *Polymer Reviews*, **2008**, 48, 156-191	14	61

369	Polyanhydrides. IV. Unsaturated and crosslinked polyanhydrides. *Journal of Polymer Science Part A*, **1991**, 29, 571-579	2.5	61
368	Attenuation of kindled seizures by intranasal delivery of neuropeptide-loaded nanoparticles. *Neurotherapeutics*, **2009**, 6, 359-71	6.4	60
367	Delivery of gentamicin to the rabbit eye by drug-loaded hydrogel iontophoresis. *Investigative Ophthalmology and Visual Science*, **2004**, 45, 2543-8		60
366	Transcorneal and transscleral iontophoresis of dexamethasone phosphate using drug loaded hydrogel. *Journal of Controlled Release*, **2005**, 106, 386-90	11.7	60
365	Quaternary Ammonium Polyethyleneimine: Antibacterial Activity. *Journal of Nanomaterials*, **2010**, 2010, 1-11	3.2	58
364	Antibacterial dental resin composites. *Reactive and Functional Polymers*, **2014**, 75, 81-88	4.6	56
363	Nanomaterials for regenerative medicine. *Nanomedicine*, **2011**, 6, 157-81	5.6	55
362	Polyanhydrides: Synthesis and characterization. *Advances in Polymer Science*, **1993**, 93-141	1.3	53
361	Exploiting EPR in polymer drug conjugate delivery for tumor targeting. *Current Pharmaceutical Design*, **2006**, 12, 4785-96	3.3	52
360	Solid-state and solution stability of poly(anhydrides) and poly(esters). *Macromolecules*, **1989**, 22, 2117-2122	5.5	52
359	Piperine-pro-nanolipospheres as a novel oral delivery system of cannabinoids: Pharmacokinetic evaluation in healthy volunteers in comparison to buccal spray administration. *Journal of Controlled Release*, **2017**, 266, 1-7	11.7	51
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357	Protein and peptide parenteral controlled delivery. *Expert Opinion on Biological Therapy*, **2004**, 4, 1203-12	3.4	50
356	Stereocomplexes based on poly(lactic acid) and insulin: formulation and release studies. *Biomaterials*, **2002**, 23, 4389-96	15.6	50
355	A contemporary review on polymer stereocomplexes and its biomedical application. *European Journal of Nanomedicine*, **2013**, 5,		49
354	Biodegradable polymers derived from amino acids. *Macromolecular Bioscience*, **2011**, 11, 1625-36	5.5	49
353	Characterization and in vivo performance of dextran-spermine polyplexes and DOTAP/cholesterol lipoplexes administered locally and systemically. *Biomaterials*, **2007**, 28, 2339-49	15.6	49
352	In vivo and in vitro elimination of aliphatic polyanhydrides. *Biomaterials*, **1995**, 16, 319-23	15.6	49

351	Long acting injectable oxytetracycline-liposphere formulations. *International Journal of Pharmaceutics*, **1995**, 124, 271-278	6.5	49
350	Poly(anhydrides). 2. One-step polymerization using phosgene or diphosgene as coupling agents. *Macromolecules*, **1988**, 21, 1925-1929	5.5	49
349	Fatty acid terminated polyanhydrides **1999**, 37, 3337-3344		48
348	Synthesis and characterization of biodegradable aromatic anhydride copolymers. *Macromolecules*, **1992**, 25, 12-17	5.5	48
347	Degradable polymer blends. I. Screening of miscible polymers. *Journal of Polymer Science Part A*, **1993**, 31, 1973-1981	2.5	48
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344	Liposphere local anesthetic timed-release for perineural site application. *Pharmaceutical Research*, **1998**, 15, 1038-45	4.5	46
343	Efficacious treatment of experimental leishmaniasis with amphotericin B-arabinogalactan water-soluble derivatives. *Antimicrobial Agents and Chemotherapy*, **1999**, 43, 2209-14	5.9	46
342	Review of prolonged local anesthetic action. *Expert Opinion on Drug Delivery*, **2010**, 7, 737-52	8	45
341	Toxicity mechanisms of amphotericin B and its neutralization by conjugation with arabinogalactan. *Antimicrobial Agents and Chemotherapy*, **2012**, 56, 5603-11	5.9	45
340	Nonlinear fatty acid terminated polyanhydrides. *Biomacromolecules*, **2001**, 2, 37-44	6.9	45
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337	Reduction in dermal fibrosis in the tight-skin (Tsk) mouse after local application of halofuginone. *Biochemical Pharmacology*, **2001**, 62, 1221-7	6	44
336	Preparation and characterization of carmustine loaded polyanhydride wafers for treating brain tumors. *Pharmaceutical Research*, **1999**, 16, 762-5	4.5	44
335	The effect of Pro NanoLipospheres (PNL) formulation containing natural absorption enhancers on the oral bioavailability of delta-9-tetrahydrocannabinol (THC) and cannabidiol (CBD) in a rat model. *European Journal of Pharmaceutical Sciences*, **2017**, 109, 21-30	5.1	44
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330	Evaluation of drug-eluting stentsScoating durability--clinical and regulatory implications. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 441-51	3.5	42
329	Non-destructive and localized assessment of acidic microenvironments inside biodegradable polyanhydrides by spectral spatial electron paramagnetic resonance imaging. *Polymer*, **1997**, 38, 4785-4794	3.9	41
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326	Biodegradable Polyesters Derived from Amino Acids. *Macromolecules*, **2009**, 42, 4520-4530	5.5	40
325	In Situ Atomic Force Microscopy Visualization of the Degradation of Melt-Crystallized Poly(sebacic anhydride). *Macromolecules*, **1995**, 28, 1108-1114	5.5	40
324	Metabolic disposition and elimination studies of a radiolabelled biodegradable polymeric implant in the rat brain. *Biomaterials*, **1994**, 15, 681-8	15.6	40
323	Brain biocompatibility of a biodegradable controlled release polymer consisting of anhydride copolymer of fatty acid dimer and sebacic acid. *Journal of Controlled Release*, **1992**, 19, 325-329	11.7	40
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321	Poly(lactic acid)-based nanocomposites. *Polymers for Advanced Technologies*, **2017**, 28, 919-930	3.2	39
320	PTL401, a New Formulation Based on Pro-Nano Dispersion Technology, Improves Oral Cannabinoids Bioavailability in Healthy Volunteers. *Journal of Pharmaceutical Sciences*, **2018**, 107, 1423-1429	3.9	39
319	Prolonged seizure suppression by a single implantable polymeric-TRH microdisk preparation. *Brain Research*, **1998**, 809, 189-97	3.7	39
318	Preparation of New -Hydroxy Acids Derived from Amino Acids and Their Corresponding Polyesters. *Macromolecules*, **2008**, 41, 7259-7263	5.5	39
317	Stereocomplexes of ABA Triblock Copolymers Based on Poly(l-Lactide) and Poly(d-Lactide) A Blocks. *Macromolecules*, **2005**, 38, 7018-7025	5.5	39
316	Perivascular delivery of heparin for the reduction of smooth muscle cell proliferation after endothelial injury. *Journal of Controlled Release*, **1999**, 60, 129-42	11.7	39

315	Preclinical Safety Evaluation in Rats of a Polymeric Matrix Containing an siRNA Drug Used as a Local and Prolonged Delivery System for Pancreatic Cancer Therapy. *Toxicologic Pathology*, **2016**, 44, 856-65	2.1	39
314	Biodegradable inflatable balloon for reducing radiation adverse effects in prostate cancer. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 855-67	3.5	38
313	Excretion of a radiolabelled anticancer biodegradable polymeric implant from the rabbit brain. *Biomaterials*, **1995**, 16, 1069-72	15.6	38
312	Paclitaxel tumor biodistribution and efficacy after intratumoral injection of a biodegradable extended release implant. *International Journal of Pharmaceutics*, **2008**, 358, 114-20	6.5	37
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306	Treatment of osteomyelitis in rats by injection of degradable polymer releasing gentamicin. *Journal of Controlled Release*, **2008**, 131, 121-7	11.7	36
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304	Lactic and Ricinoleic Acid Based Copolyesters Stereocomplexation. *Macromolecules*, **2005**, 38, 5634-5639	5.5	36
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301	Implantable Medical Devices. *Advances in Delivery Science and Technology*, **2014**, 33-59		35
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299	Hydrolytic degradation and drug release of ricinoleic acid-lactic acid copolyesters. *Pharmaceutical Research*, **2006**, 23, 1306-12	4.5	35
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295	Recent Advances in Polyanhydride Based Biomaterials. *Advanced Materials*, **2018**, 30, e1706815	24	34
294	Methotrexate delivery to the eye using transscleral hydrogel iontophoresis. *Current Eye Research*, **2007**, 32, 639-46	2.9	34
293	Heterostereocomplexes prepared from d-PLA and l-PLA and leuprolide. II. Release of leuprolide. *Biomacromolecules*, **2003**, 4, 1316-20	6.9	34
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291	Thyrotropin-releasing hormone d,l polylactide nanoparticles (TRH-NPs) protect against glutamate toxicity in vitro and kindling development in vivo. *Brain Research*, **2009**, 1303, 151-60	3.7	33
290	New formulations and derivatives of amphotericin B for treatment of leishmaniasis. *Mini-Reviews in Medicinal Chemistry*, **2006**, 6, 153-62	3.2	33
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288	Poly(sebacic acid-co-ricinoleic acid) biodegradable carrier for paclitaxel--effect of additives. *Journal of Controlled Release*, **2005**, 105, 52-67	11.7	32
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284	Electrospun rapamycin-eluting polyurethane fibers for vascular grafts. *Pharmaceutical Research*, **2013**, 30, 1735-48	4.5	31
283	Prolonged local anesthetic action through slow release from poly (lactic acid co castor oil). *Pharmaceutical Research*, **2009**, 26, 32-9	4.5	31
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