Yasushi Sasai

List of Publications by Year
in descending order

69	513	840776 11	839539 18
papers	citations	h-index	g-index

72	72	72	456
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stainless-Steel-Mediated Quantitative Hydrogen Generation from Water under Ball Milling Conditions. ACS Sustainable Chemistry and Engineering, 2015, 3, 683-689.	6.7	31
2	Direct Deuteration of Acrylic and Methacrylic Acid Derivatives Catalyzed by Platinum on Carbon in Deuterium Oxide. Advanced Synthesis and Catalysis, 2018, 360, 2303-2307.	4.3	29
3	Nature of Mechanoradical Formation of Substituted Celluloses as Studied by Electron Spin Resonance. Chemical and Pharmaceutical Bulletin, 2004, 52, 339-344.	1.3	27
4	Preparation of Floating Drug Delivery System by Plasma Technique. Chemical and Pharmaceutical Bulletin, 2006, 54, 514-518.	1.3	21
5	Development of biomaterial using durable surface wettability fabricated by plasma-assisted immobilization of hydrophilic polymer. Thin Solid Films, 2007, 515, 4136-4140.	1.8	21
6	Kinetic analysis of the mechanolysis of polymethylmethacrylate in the course of vibratory ball milling at various mechanical energy. Journal of Polymer Science Part A, 2004, 42, 4161-4167.	2.3	20
7	Introduction of carboxyl group onto polystyrene surface using plasma techniques. Surface and Coatings Technology, 2008, 202, 5724-5727.	4.8	20
8	Synthesis of Water-Soluble Polymeric Prodrugs Possessing 4-Methylcatechol Derivatives by Mechanochemical Solid-State Copolymerization and Nature of Drug Release.. Chemical and Pharmaceutical Bulletin, 2002, 50, 1434-1438.	1.3	17
9	Chemical diagnosis of DLC by ESR spectral analysis. Thin Solid Films, 2010, 518, 3492-3496.	1.8	17
10	Plasma-Assisted Fabrication of Self-Assembled Phospholipid Layer onto Polymer Surface and Its Characterization. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 477-480.	0.3	15
11	Plasma Techniques for Preparation of Controlled Drug Release System. Plasmas and Polymers, 2001, 6, 145-162.	1.5	14
12	Mechanically-amplified plasma processing for drug engineering. Thin Solid Films, 2002, 407, 144-150.	1.8	12
13	Specificities in Structures of Surface Radicals on Substituted Celluloses Produced by Plasma-irradiation.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1999, 12, 75-78.	0.3	11
14	Addendum - Recent advances in plasma techniques for biomedical and drug engineering. Pure and Applied Chemistry, 2005, 77, 667-682.	1.9	11
15	Immobilization of Antithrombotic Biomolecules on LDPE Surface Functionalized by Plasma Techniques. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2006, 19, 265-268.	0.3	11
16	Novel Application of Plasma Treatment for Pharmaceutical and Biomedical Engineering. Current Drug Discovery Technologies, 2009, 6, 135-150.	1.2	11
17	Palladium on Carbon-Catalyzed Gentle and Quantitative Combustion of Hydrogen at Room Temperature. Advanced Synthesis and Catalysis, 2014, 356, 313-318.	4.3	11
18	Novel pH-Responsive Polymeric Micelles Prepared through Self-assembly of Amphiphilic Block Copolymer with Poly-4-vinylpyridine Block Synthesized by Mechanochemical Solid-State Polymerization. Chemical and Pharmaceutical Bulletin, 2015, 63, 489-494.	1.3	11

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19	Sodium carboxylate effect of non-cross-linked hydrogel on plasma-induced radical formation as studied by electron spin resonance. Thin Solid Films, 2004, 457, 12-19.	1.8	10
20	Synthesis of DNA Conjugate by Mechanochemical Solid-State Polymerization and Its Affinity Separation of Oligonucleotides Having Single-Base Difference by Capillary Electrophoresis. Chemical and Pharmaceutical Bulletin, 2005, 53, 863-865.	1.3	10
21	Development of Novel Polymeric Prodrugs Synthesized by Mechanochemical Solid-State Copolymerization of Hydroxyethylcellulose and Vinyl Monomers. Chemical and Pharmaceutical Bulletin, 2015, 63, 992-997.	1.3	10
22	Synthesis and Characterization of Highly Stabilized Polymerâ€“Trypsin Conjugates with Autolysis Resistance. Catalysts, 2017, 7, 4.	3.5	10
23	Photo-responsive polymer micelles from o-nitrobenzyl ester-based amphiphilic block copolymers synthesized by mechanochemical solid-state copolymerization. Polymer Journal, 2020, 52, 1375-1385.	2.7	10
24	Pharmaceutical and Biomedical Engineering by Plasma Techniques. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2008, 21, 785-798.	0.3	9
25	Preparation of Floating Drug Delivery System by Plasma Techniques.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2002, 15, 331-334.	0.3	8
26	Surface Engineering of Polymer Sheet by Plasma Techniques and Atom Transfer Radical Polymerization for Covalent Immobilization of Biomolecules. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 197-200.	0.3	8
27	Development of Patient-Tailored Drug Delivery System by Plasma Techniques. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2004, 17, 185-188.	0.3	7
28	Conventional Synthesis of Amphiphilic Block Copolymer Utilized for Polymeric Micelle by Mechanochemical Solid-State Polymerization. Chemical and Pharmaceutical Bulletin, 2007, 55, 389-392.	1.3	7
29	Characterization of Novel pH-Sensitive Polymeric Micelles Prepared by the Self-Assembly of Amphiphilic Block Copolymer with Poly-4-vinylpyridine Block Synthesized by Mechanochemical Solid-State Polymerization. Chemical and Pharmaceutical Bulletin, 2011, 59, 1200-1202.	1.3	7
30	Construction of Matrix-type Drug Delivery System using Solid Phase Polymerization initiated by Plasma-induced Radicals. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 529-532.	0.3	7
31	Immobilization of Cyclodextrin Derivatives onto the Self-Assembled Phospholipid Layer Fabricated by Plasma-Assisted Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 545-548.	0.3	7
32	Preparation of Floating Drug Delivery System by Pulsed-Plasma Techniques. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2004, 17, 149-152.	0.3	6
33	Surface Engineering of Polystyrene Dish for Improvement of Cell Adhesion Using Plasma Techniques. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2008, 21, 277-280.	0.3	6
34	Surface Treatment of Natural Polymer by Plasma Technique - Promotion of Seed Germination-. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2012, 25, 535-538.	0.3	6
35	Novel and Simple Preparation Method of Matrix-Type Composite Particles for Controlled Drug Release by Mechanical Action. Chemical and Pharmaceutical Bulletin, 2004, 52, 488-489.	1.3	5
36	Activity Evaluation of Antibody Immobilized onto the Self-Assembled Phospholipid Layer Fabricated by Plasma-Assisted Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 567-570.	0.3	5

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37	Effect of annealing on diamond-like carbon characteristics by electron spin resonance spectral analysis. Thin Solid Films, 2011, 519, 6693-6697.	1.8	5
38	Development of Polymer Nano-Film Synthesized on Self-Assembled Phospholipid Layer Possessing Fluidity Fabricated by Plasma-Assisted Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 439-442.	0.3	5
39	Immobilization of Bioactive Molecule onto Polymer Surface functionalized by Plasma Techniques and its Application to Cell Culture. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 503-506.	0.3	4
40	Immobilization of Proteins onto the Self-Assembled Phospholipid Layer Fabricated by Plasma-Assisted Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 467-470.	0.3	4
41	Preparation and Characteristics of a Novel Sustained and Controlled Release Drug Delivery Device by Plasma Technique. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 447-450.	0.3	4
42	A new drug delivery system using plasma-irradiated pharmaceutical aids. X controlled-release of theophylline from plasma-irradiated double-compressed tablet composed of poly(styrene-maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5 127-133.	0.0	4
43	Development of Drug Delivery System by Atmospheric Pressure Glow Plasma. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2005, 18, 281-284.	0.3	3
44	Plasma Surface Modification of Polymer Substrate for Cell Adhesion Control. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 595-598.	0.3	3
45	Kinetic analysis of mechanoradical formation during the mechanolysis of dextran and glycogen. Beilstein Journal of Organic Chemistry, 2017, 13, 1174-1183.	2.2	3
46	Fundamental Study on Development of Polymer Nano-Film Synthesized on Self-Assembled Phospholipid Layer Fabricated by Plasma-Assisted Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 385-388.	0.3	3
47	Application to Nano Drug Carrier Using Polymer Nano-Film Synthesized on Self-Assembled Phospholipid Layer Fabricated by Plasma-Assisted Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 541-544.	0.3	3
48	Fabrication of Hydrophilic Polymer Brushes on Polystyrene Substrate by Plasma-based Surface Functionalization. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2012, 25, 551-554.	0.3	2
49	Evaluation on Fluidity of the Self-Assembled Phospholipid Layer Fabricated by Plasma-Assisted Method and its Application. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2012, 25, 501-506.	0.3	2
50	Development of A Novel Polymeric Prodrug Synthesized Using Plasma-Induced Radicals of Polycrystalline Carbohydrates. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 505-510.	0.3	2
51	Mechanochemical Solid-State Polymerization (XI): Effect of Water-Insoluble Pharmaceutical Aids on Drug Release from Mechanically Synthesized Polymeric Prodrugs. Chemical and Pharmaceutical Bulletin, 2004, 52, 1302-1306.	1.3	1
52	Plasma-Assisted Immobilization of Heparin onto Low-Density Polyethylene Surface. Chemical and Pharmaceutical Bulletin, 2008, 56, 921-925.	1.3	1
53	Effect of Annealing on DLC Characteristics by ESR Spectral Analysis. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 541-544.	0.3	1
54	Cold Plasma Techniques for Pharmaceutical and Biomedical Engineering. , 0, , .		1

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55	Fabrication of Scaffold for Cell Adhesion on Plasma-irradiated Polystyrene. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 417-420.	0.3	1
56	Preparation of Enzyme-immobilized Filter Paper using Plasma Surface Treatment. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 559-562.	0.3	1
57	Intermolecular Interaction of Cyclodextrin Derivatives Immobilized onto the Self-Assembled Phospholipid Layer Fabricated by Plasma-Assisted Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 385-388.	0.3	1
58	Plasma Irradiation to Poly(acrylic acid) Brushes fabricated on Polystyrene Substrate and its Characterization. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 369-372.	0.3	1
59	A New Drug Delivery System Using Plasma-Irradiated Polysaccharide. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 389-392.	0.3	1
60	Immobilization of Au Nano Particles Using the Durable Hydrophilic Polymer Surface Fabricated by Plasma-Assisted Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2015, 28, 475-478.	0.3	1
61	Preparation and Characterization of Polymeric Prodrugs of Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) by Cold Plasma Technique. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 303-306.	0.3	1
62	Characterization of a novel polymeric prodrug of an antibacterial agent synthesized by mechanochemical solidâ€state polymerization. Drug Development Research, 2020, 81, 867-874.	2.9	1
63	Effects of Plasma Surface Treatment on Cell Adhesion to Biocompatible Polymer Brushes. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 529-533.	0.3	1
64	Synthesis and Characterization of Polymer-Linked Prodrug of Antibacterial Agent for The Targeted Delivery to The Colon by Cold Plasma Technique. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 343-348.	0.3	1
65	Surface Functionalization of DLC Thin Films by Plasma Technique. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 475-478.	0.3	0
66	Surface Engineering of Polymer Sheet by Plasma Techniques and Atom Transfer Radical Polymerization for Covalent Immobilization of Biomolecules. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 2, 197-200.	0.3	0
67	Fabrication of Polymer Film Immobilizing Pd Nano Particles by Plasma-Assisted Method and Evaluation of its Catalytic Activity. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 313-316.	0.3	0
68	Characterization of pH-Responsible Polymer Nano-Film Synthesized on Self-Assembled Phospholipid Layer Fabricated by Plasma-Assisted Method. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 333-336.	0.3	0
69	Characterization of Shape of Polymer Nano-Films Possessing Various Crosslinking Chain Length. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 533-536.	0.3	0