

# Yasushi Sasai

## List of Publications by Year in descending order

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69  
papers

513  
citations

840776

11  
h-index

839539

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72  
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72  
docs citations

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times ranked

456  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Characterization of a novel polymeric prodrug of an antibacterial agent synthesized by mechanochemical solid-state polymerization. Drug Development Research, 2020, 81, 867-874.	2.9	1
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	Synthesis and Characterization of Highly Stabilized Polymer- $\alpha$ -Trypsin Conjugates with Autolysis Resistance. Catalysts, 2017, 7, 4.	3.5	10
12	Kinetic analysis of mechanoradical formation during the mechanolysis of dextran and glycogen. Beilstein Journal of Organic Chemistry, 2017, 13, 1174-1183.	2.2	3
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	Stainless-Steel-Mediated Quantitative Hydrogen Generation from Water under Ball Milling Conditions. ACS Sustainable Chemistry and Engineering, 2015, 3, 683-689.	6.7	31
21	Palladium on Carbon-Catalyzed Gentle and Quantitative Combustion of Hydrogen at Room Temperature. Advanced Synthesis and Catalysis, 2014, 356, 313-318.	4.3	11
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	Effect of annealing on diamond-like carbon characteristics by electron spin resonance spectral analysis. Thin Solid Films, 2011, 519, 6693-6697.	1.8	5
36	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

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37	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
38	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
39	Chemical diagnosis of DLC by ESR spectral analysis. Thin Solid Films, 2010, 518, 3492-3496.	1.8	17
40	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
41	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
42	Novel Application of Plasma Treatment for Pharmaceutical and Biomedical Engineering. Current Drug Discovery Technologies, 2009, 6, 135-150.	1.2	11
43	Introduction of carboxyl group onto polystyrene surface using plasma techniques. Surface and Coatings Technology, 2008, 202, 5724-5727.	4.8	20
44	Plasma-Assisted Immobilization of Heparin onto Low-Density Polyethylene Surface. Chemical and Pharmaceutical Bulletin, 2008, 56, 921-925.	1.3	1
45	Pharmaceutical and Biomedical Engineering by Plasma Techniques. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2008, 21, 785-798.	0.3	9
46	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
47	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
48	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
49	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
50	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
51	Preparation of Floating Drug Delivery System by Plasma Technique. Chemical and Pharmaceutical Bulletin, 2006, 54, 514-518.	1.3	21
52	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
53	Addendum - Recent advances in plasma techniques for biomedical and drug engineering. Pure and Applied Chemistry, 2005, 77, 667-682.	1.9	11
54	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

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55	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
56	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
57	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
58	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
59	Nature of Mechanoradical Formation of Substituted Celluloses as Studied by Electron Spin Resonance. Chemical and Pharmaceutical Bulletin, 2004, 52, 339-344.	1.3	27
60	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
61	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
62	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
63	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
64	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
65	Mechanically-amplified plasma processing for drug engineering. Thin Solid Films, 2002, 407, 144-150.	1.8	12
66	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 4 10 Tf 50 3 127-133.		
67	Plasma Techniques for Preparation of Controlled Drug Release System. Plasmas and Polymers, 2001, 6, 145-162.	1.5	14
68	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
69	Cold Plasma Techniques for Pharmaceutical and Biomedical Engineering. , 0, ,		1