

# Seiji Shinkai

## List of Publications by Citations

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693  
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700  
ext. papers

42,775  
ext. citations

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7.26  
L-index

#	Paper	IF	Citations
693	Novel Cavity Design Using Calix[n]arene Skeletons: Toward Molecular Recognition and Metal Binding. <i>Chemical Reviews</i> , <b>1997</b> , 97, 1713-1734	68.1	1128
692	Organic templates for the generation of inorganic materials. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 980-99	16.4	784
691	Saccharide Sensing with Molecular Receptors Based on Boronic Acid. <i>Angewandte Chemie International Edition in English</i> , <b>1996</b> , 35, 1910-1922		775
690	Thermal and Light Control of the Sol-Gel Phase Transition in Cholesterol-Based Organic Gels. Novel Helical Aggregation Modes As Detected by Circular Dichroism and Electron Microscopic Observation. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 6664-6676	16.4	687
689	Chiral discrimination of monosaccharides using a fluorescent molecular sensor. <i>Nature</i> , <b>1995</b> , 374, 345-347	37.4	532
688	Semi-wet peptide/protein array using supramolecular hydrogel. <i>Nature Materials</i> , <b>2004</b> , 3, 58-64	27	509
687	Calixarenes - the third generation of supramolecules. <i>Tetrahedron</i> , <b>1993</b> , 49, 8933-8968	2.4	429
686	Visible-light-harvesting organogel composed of cholesterol-based perylene derivatives. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 1229-33	16.4	412
685	Novel Saccharide-Photoinduced Electron Transfer Sensors Based on the Interaction of Boronic Acid and Amine. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 8982-8987	16.4	412
684	Hexasulfonated calix[6]arene derivatives: a new class of catalysts, surfactants, and host molecules. <i>Journal of the American Chemical Society</i> , <b>1986</b> , 108, 2409-16	16.4	398
683	Photoswitchable supramolecular hydrogels formed by cyclodextrins and azobenzene polymers. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7461-4	16.4	369
682	Creation of Novel Helical Ribbon and Double-Layered Nanotube TiO <sub>2</sub> Structures Using an Organogel Template. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 1445-1447	9.6	361
681	Creation of Both Right-Handed and Left-Handed Silica Structures by Sol-Gel Transcription of Organogel Fibers Comprised of Chiral Diaminocyclohexane Derivatives. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 5008-5009	16.4	361
680	A colorimetric and ratiometric fluorescent chemosensor with three emission changes: fluoride ion sensing by a triarylborane- porphyrin conjugate. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 2036-40	16.4	352
679	Positive allosteric systems designed on dynamic supramolecular scaffolds: toward switching and amplification of guest affinity and selectivity. <i>Accounts of Chemical Research</i> , <b>2001</b> , 34, 494-503	24.3	352
678	Artificial Receptors as Chemosensors for Carbohydrates. <i>Topics in Current Chemistry</i> , <b>2002</b> , 159-200		345
677	Photoresponsive crown ethers. 2. Photocontrol of ion extraction and ion transport by a bis(crown ether) with a butterfly-like motion. <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 111-115	16.4	330

676	Conformations and structures of tetra-O-alkyl-p-tert-butylcalix[4]arenes. How is the conformation of calix[4]arenes immobilized?. <i>Journal of Organic Chemistry</i> , <b>1991</b> , 56, 4955-4962	4.2	325
675	Ring closure of carbon nanotubes. <i>Science</i> , <b>2001</b> , 293, 1299-301	33.3	322
674	First thermally responsive supramolecular polymer based on glycosylated amino acid. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 10954-5	16.4	312
673	A coordination gelator that shows a reversible chromatic change and sol-gel phase-transition behavior upon oxidative/reductive stimuli. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 8592-3	16.4	297
672	A sensitive colorimetric and fluorescent probe based on a polythiophene derivative for the detection of ATP. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 6371-4	16.4	294
671	A Glucose-Selective Molecular Fluorescence Sensor. <i>Angewandte Chemie International Edition in English</i> , <b>1994</b> , 33, 2207-2209		291
670	Spontaneous colorimetric sensing of the positional isomers of dihydroxynaphthalene in a 1D organogel matrix. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 1592-5	16.4	287
669	Molecular design of artificial molecular and ion recognition systems with allosteric guest responses. <i>Accounts of Chemical Research</i> , <b>2001</b> , 34, 865-73	24.3	283
668	What kind of "soft materials" can we design from molecular gels?. <i>Chemistry - an Asian Journal</i> , <b>2011</b> , 6, 266-82	4.5	270
667	Sugar-integrated gelators of organic solvents. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 4328-34	4.8	268
666	Helical ribbon aggregate composed of a crown-appended cholesterol derivative which acts as an amphiphilic gelator of organic solvents and as a template for chiral silica transcription. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 8785-9	16.4	262
665	Gelators for organic liquids based on self-assembly: a new facet of supramolecular and combinatorial chemistry. <i>Current Opinion in Colloid and Interface Science</i> , <b>2002</b> , 7, 148-156	7.6	242
664	Functionalized magnetic nanoparticles as chemosensors and adsorbents for toxic metal ions in environmental and biological fields. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 4464-74	58.5	236
663	Preparation of TiO <sub>2</sub> Hollow-Fibers Using Supramolecular Assemblies. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 1523-1525	9.6	225
662	Very Convenient and Efficient Purification Method for Fullerene (C <sub>60</sub> ) with 5,11,17,23,29,35,41,47-Octa-tert-butylcalix[8]arene-49,50,51,52,53,54,55,56-octol. <i>Chemistry Letters</i> , <b>1994</b> , 23, 699-702	1.7	224
661	On the Origin of High Ionophoricity of 1,3-Alternate Calix[4]arenes: .pi.-donor Participation in Complexation of Cations and Evidence for Metal-Tunneling through the Calix[4]arene Cavity. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 3102-3110	16.4	222
660	Hydrogen-bond-assisted control of H versus J aggregation mode of porphyrins stacks in an organogel system. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 5037-44	4.2	215
659	Organic gels are useful as a template for the preparation of hollow fiber silica. <i>Chemical Communications</i> , <b>1998</b> , 1477-1478	5.8	214

- 658 Lipophilic polyelectrolyte gels as super-absorbent polymers for nonpolar organic solvents. *Nature Materials*, **2007**, 6, 429-33 27 213
- 657 A stable single piece of unimolecularly pi-stacked porphyrin aggregate in a thixotropic low molecular weight gel: a one-dimensional molecular template for polydiacetylene wiring up to several tens of micrometers in length. *Journal of the American Chemical Society*, **2005**, 127, 4164-5 16.4 212
- 656 Inclusion of cut and as-grown single-walled carbon nanotubes in the helical superstructure of schizophyllan and curdlan (beta-1,3-glucans). *Journal of the American Chemical Society*, **2005**, 127, 5875-84 16.4 207
- 655 NMR and crystallographic studies of a p-sulfonatocalix[4]arene-guest complex. *Journal of the American Chemical Society*, **1990**, 112, 9053-9058 16.4 206
- 654 Molecular design of calixarene-based uranophiles which exhibit remarkably high stability and selectivity. *Journal of the American Chemical Society*, **1987**, 109, 6371-6376 16.4 206
- 653 Dye-Based Organogels: Stimuli-Responsive Soft Materials Based on One-Dimensional Self-Assembling Aromatic Dyes 119-160 203
- 652 Molecular Recognition of Adenine, Cytosine, and Uracil in a Single-Stranded RNA by a Natural Polysaccharide: Schizophyllan. *Journal of the American Chemical Society*, **2000**, 122, 4520-4521 16.4 201
- 651 Photoresponsive crown ethers. 1. Cis-trans isomerism of azobenzene as a tool to enforce conformational changes of crown ethers and polymers. *Journal of the American Chemical Society*, **1980**, 102, 5860-5865 16.4 201
- 650 Self-Assembly of a Sugar-Based Gelator in Water: Its Remarkable Diversity in Gelation Ability and Aggregate Structure. *Langmuir*, **2001**, 17, 7229-7232 4 200
- 649 Boronic acids in molecular self-assembly. *Chemistry - an Asian Journal*, **2008**, 3, 1076-91 4.5 199
- 648 Self-assembly of supramolecular chiral insulated molecular wire. *Journal of the American Chemical Society*, **2005**, 127, 4548-9 16.4 195
- 647 Post-polymerization of preorganized assemblies for creating shape-controlled functional materials. *Chemical Society Reviews*, **2007**, 36, 415-35 58.5 190
- 646 Sugar-Integrated Gelators of Organic Solvents Their Remarkable Diversity in Gelation Ability and Aggregate Structure. *Chemistry - A European Journal*, **1999**, 5, 2722-2729 4.8 190
- 645 Cucurbit[7]uril: A simple macrocyclic, pH-triggered hydrogelator exhibiting guest-induced stimuli-responsive behavior. *Angewandte Chemie - International Edition*, **2007**, 46, 210-3 16.4 188
- 644 Synthesis and ion selectivity of all conformational isomers of tetrakis[(ethoxycarbonyl)methoxy]calix[4]arene. *Journal of Organic Chemistry*, **1992**, 57, 7066-7073 4.2 185
- 643 Self-Organization of PEO-graft-Single-Walled Carbon Nanotubes in Solutions and Langmuir-Blodgett Films. *Langmuir*, **2001**, 17, 5125-5128 4 182
- 642 Syntheses of all possible conformational isomers of O-alkyl-p-t-butylcalix[4]arenes. *Tetrahedron*, **1991**, 47, 4325-4342 2.4 179
- 641 New water-soluble host molecules derived from calix[6]arene. *Tetrahedron Letters*, **1984**, 25, 5315-5318 2 179

640	Novel photoinduced electron-transfer sensor for saccharides based on the interaction of boronic acid and amine. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 477		177
639	Cholesterol-based functional tectons as versatile building-blocks for liquid crystals, organic gels and monolayers. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 485-495		175
638	New syntheses of calixarene-p-sulphonates and p-nitrocalixarenes. <i>Journal of the Chemical Society Perkin Transactions 1</i> , <b>1987</b> , 2297		174
637	Spectral characterization of self-assemblies of aldopyranoside amphiphilic gelators: what is the essential structural difference between simple amphiphiles and bolaamphiphiles?. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 2684-90	4.8	164
636	Sol-gel polycondensation in a cyclohexane-based organogel system in helical silica: creation of both right- and left-handed silica structures by helical organogel fibers. <i>Chemistry - A European Journal</i> , <b>2000</b> , 6, 4552-7	4.8	162
635	Molecular design of "super" hydrogelators: understanding the gelation process of azobenzene-based sugar derivatives in water. <i>Organic Letters</i> , <b>2002</b> , 4, 1423-6	6.2	161
634	Sol-Gel Polycondensation of Tetraethoxysilane in a Cholesterol-Based Organogel System Results in Chiral Spiral Silica. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 1862-1865	16.4	159
633	Creation of a mixed-valence state from one-dimensionally aligned TTF utilizing the self-assembling nature of a low molecular-weight gel. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14980-1	16.4	158
632	Efficient photocurrent generation in novel self-assembled multilayers comprised of [60]fullerene-cationic homooxalix[3]arene inclusion complex and anionic porphyrin polymer. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 4855-6	16.4	158
631	Inclusion of [60]Fullerene in a Homooxalix[3]arene-Based Dimeric Capsule Cross-Linked by a PdIIByridine Interaction. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 4296-4297	16.4	157
630	Self-Sorting Organogels with pπ Heterojunction Points. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 2863-2865	9.6	155
629	Polysaccharide--polynucleotide complexes. 2. Complementary polynucleotide mimic behavior of the natural polysaccharide schizophyllan in the macromolecular complex with single-stranded RNA and DNA. <i>Biomacromolecules</i> , <b>2001</b> , 2, 641-50	6.9	154
628	Quater-, quinque-, and sexithiophene organogelators: unique thermochromism and heating-free sol-gel phase transition. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 4735-42	4.8	153
627	Colloidal Nature of Single-Walled Carbon Nanotubes in Electrolyte Solution: The SchulzeHardy Rule. <i>Langmuir</i> , <b>2001</b> , 17, 7172-7173	4	153
626	Temperature and pressure dependences of thermal cis-to-trans isomerization of azobenzenes which evidence an inversion mechanism. <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 5161-5165	16.4	153
625	Charge-transfer phenomena in novel, dual-component, sugar-based organogels. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 10754-8	16.4	151
624	An Attempt to Predict the Gelation Ability of Hydrogen-bond-based Gelators Utilizing a Glycoside Library. <i>Tetrahedron</i> , <b>2000</b> , 56, 9595-9599	2.4	149
623	Specific complexation with mono- and disaccharides that can be detected by circular dichroism. <i>Journal of Organic Chemistry</i> , <b>1991</b> , 56, 4089-4091	4.2	149

- 622 Photoresponsive crown ethers. 8. Azobenzenophane-type switched-on crown ethers which exhibit an all-or-nothing change in ion-binding ability. *Journal of the American Chemical Society*, **1983**, 105, 1851-1856 16.4 148
- 621 Fabrication of silica nanotubes by using self-assembled gels and their applications in environmental and biological fields. *Chemical Society Reviews*, **2010**, 39, 4286-302 58.5 147
- 620 A Strong Positive Allosteric Effect in the Molecular Recognition of Dicarboxylic Acids by a Cerium(IV) Bis[tetrakis(4-pyridyl)porphyrinate] Double Decker. *Angewandte Chemie - International Edition*, **1998**, 37, 2096-2099 16.4 146
- 619 Reinvestigation of Calixarene-Based Artificial-Signaling Acetylcholine Receptors Useful in Neutral Aqueous (Water/Methanol) Solution. *Journal of the American Chemical Society*, **1996**, 118, 755-758 16.4 143
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- 616 [60]fullerene-motivated organogel formation in a porphyrin derivative bearing programmed hydrogen-bonding sites. *Journal of the American Chemical Society*, **2003**, 125, 9902-3 16.4 128
- 615 [60]Fullerene Can Reinforce the Organogel Structure of Porphyrin-Appended Cholesterol Derivatives: Novel Odd/Even Effect of the (CH<sub>2</sub>)<sub>n</sub> Spacer on the Organogel Stability. *Langmuir*, **2001**, 17, 5825-5833 4 128
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- 610 Novel Vesicular Aggregates of Crown-Appended Cholesterol Derivatives Which Act as Gelators of Organic Solvents and as Templates for Silica Transcription. *Journal of the American Chemical Society*, **2000**, 122, 8648-8653 16.4 120
- 609 A new metal sensory system based on intramolecular fluorescence quenching on the ionophoric calix[4]arene ring. *Journal of the Chemical Society Chemical Communications*, **1992**, 730 119
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- 607 Saccharidnachweis mit Rezeptoren auf Boronsrebasis. *Angewandte Chemie*, **1996**, 108, 2038-2050 3.6 115
- 606 NMR determination of association constants for calixarene complexes. Evidence for the formation of a 1:2 complex with calix[8]arene. *Journal of the American Chemical Society*, **1988**, 110, 7214-7215 16.4 115
- 605 Construction of Artificial Photosynthetic Reaction Centers on a Protein Surface: Vectorial, Multistep, and Proton-Coupled Electron Transfer for Long-Lived Charge Separation. *Journal of the American Chemical Society*, **2000**, 122, 241-253 16.4 114

604	Recent Topics on Functionalization and Recognition Ability of Calixarenes: The Third Host Molecule <i>Bulletin of the Chemical Society of Japan</i> , <b>1995</b> , 68, 1088-1097	5.1	114
603	Photoresponsive crown ethers. 4. Influence of alkali metal cations on photoisomerization and thermal isomerization of azobis(benzocrown ethers). <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 1960-1967	16.4	114
602	Regulation of a real-time self-healing process in organogel tissues by molecular adhesives. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6338-42	16.4	113
601	Visible-Light-Harvesting Organogel Composed of Cholesterol-Based Perylene Derivatives. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 1249-1253	3.6	113
600	Rational design of a sugar-appended porphyrin gelator that is forced to assemble into a one-dimensional aggregate. <i>Organic Letters</i> , <b>2001</b> , 3, 3631-4	6.2	113
599	CATION-INTERACTIONS IN CALIX[n]ARENE AND RELATED SYSTEMS. <i>Journal of Physical Organic Chemistry</i> , <b>1997</b> , 10, 273-285	2.1	112
598	Novel Silica Structures Which Are Prepared by Transcription of Various Superstructures Formed in Organogels. <i>Langmuir</i> , <b>2000</b> , 16, 1643-1649	4	112
597	Double helical silica fibrils by sol-gel transcription of chiral aggregates of gemini surfactants. <i>Chemical Communications</i> , <b>2002</b> , 1212-3	5.8	111
596	Polydiacetylene nanofibers created in low-molecular-weight gels by post modification: control of blue and red phases by the odd-even effect in alkyl chains. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4134-5	16.4	109
595	Beta-1,3-glucan polysaccharides as novel one-dimensional hosts for DNA/RNA, conjugated polymers and nanoparticles. <i>Chemical Communications</i> , <b>2005</b> , 4383-98	5.8	109
594	'Click chemistry' on polysaccharides: a convenient, general, and monitorable approach to develop (1->3)-beta-D-glucans with various functional appendages. <i>Carbohydrate Research</i> , <b>2006</b> , 341, 35-40	2.9	108
593	Solvent Extraction of Trivalent Rare Earth Metal Ions with Carboxylate Derivatives of Calixarenes.. <i>Analytical Sciences</i> , <b>1995</b> , 11, 893-902	1.7	107
592	Highly enantioselective synthesis of organic compound using right- and left-handed helical silica. <i>Tetrahedron Letters</i> , <b>2003</b> , 44, 721-724	2	103
591	Proton-sensitive fluorescent organogels. <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 895-9	3.9	98
590	Chiral Recognition of Amino Acid Derivatives with a Homooxalix[3]arene: Construction of a Pseudo-C2-Symmetrical Compound from a C3-Symmetrical Macrocyclic. <i>Angewandte Chemie International Edition in English</i> , <b>1996</b> , 35, 72-74		97
589	Creation of double silica nanotubes by using crown-appended cholesterol nanotubes. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 5307-13	4.8	96
588	Syntheses and optical resolution of calix[4]arenes with molecular asymmetry. Systematic classification of all possible chiral isomers derivable from calix[4]arene. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 3997-4006	16.4	96
587	Supramolecular Structure of a Sugar-Appended Organogelator Explored with Synchrotron X-ray Small-Angle Scattering. <i>Langmuir</i> , <b>2003</b> , 19, 8211-8217	4	94

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- 585 Molecular Design of a Molecular Syringe-Mimic for Metal Cations Using a 1,3-Alternate Calix[4]arene Cavity. *Journal of Organic Chemistry*, **1997**, 62, 3568-3574 4.2 93
- 584 A General Semisynthetic Method for Fluorescent Saccharide-Biosensors Based on a Lectin. *Journal of the American Chemical Society*, **2000**, 122, 12065-12066 16.4 93
- 583 Specific complexation of disaccharides with diphenyl-3,3'-diboronic acid that can be detected by circular dichroism. *Tetrahedron*, **1992**, 48, 8239-8252 2.4 93
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- 581 An organogel system can control the stereochemical course of anthracene photodimerization. *Chemical Communications*, **2009**, 2100-2 5.8 92
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- 561 NMR spectroscopic and X-ray crystallographic studies of calix[4]arene-Ag<sup>+</sup> complexes. Influence of bound Ag<sup>+</sup> on C<sub>2v</sub>↔C<sub>2v</sub> interconversion in cone-calix[4]arenes. *Journal of the Chemical Society Perkin Transactions II*, **1994**, 2073-2080 81
- 560 Sol-gel reaction of porphyrin-based superstructures in the organogel phase: creation of mechanically reinforced porphyrin hybrids. *Journal of the American Chemical Society*, **2005**, 127, 7298-9 16.4 80
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