

# Li-hua Yuan

## List of Publications by Year in descending order

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78  
papers

2,483  
citations

186265

28  
h-index

214800

47  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1490  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Highly Efficient, One-Step Macrocyclizations Assisted by the Folding and Preorganization of Precursor Oligomers. <i>Journal of the American Chemical Society</i> , 2004, 126, 11120-11121.   | 13.7 | 148       |
| 2  | Highly Conducting Transmembrane Pores Formed by Aromatic Oligoamide Macrocycles. <i>Journal of the American Chemical Society</i> , 2008, 130, 15784-15785.   | 13.7 | 145       |
| 3  | Efficient Kinetic Macrocyclization. <i>Journal of the American Chemical Society</i> , 2009, 131, 2629-2637.  | 13.7 | 120       |
| 4  | Helical Aromatic Oligoamides: Reliable, Readily Predictable Folding from the Combination of Rigidified Structural Motifs. <i>Journal of the American Chemical Society</i> , 2004, 126, 16528-16537.  | 13.7 | 117       |
| 5  | Pillar[5]arene-based diglycolamides for highly efficient separation of americium( <sup>III</sup> ) and europium( <sup>III</sup> ). <i>Dalton Transactions</i> , 2014, 43, 3835-3838.   | 3.3  | 110       |
| 6  | Pillar[5]arene-based phosphine oxides: novel ionophores for solvent extraction separation of f-block elements from acidic media. <i>RSC Advances</i> , 2013, 3, 12376.   | 3.6  | 101       |
| 7  | Pillararenes as macrocyclic hosts: a rising star in metal ion separation. <i>Chemical Communications</i> , 2019, 55, 7883-7898.  | 4.1  | 95        |
| 8  | Strong Aggregation and Directional Assembly of Aromatic Oligoamide Macrocycles. <i>Journal of the American Chemical Society</i> , 2011, 133, 18590-18593.  | 13.7 | 94        |
| 9  | Ditopic CMPO-pillar[5]arenes as unique receptors for efficient separation of americium( <sup>III</sup> ) and europium( <sup>III</sup> ). <i>Chemical Communications</i> , 2015, 51, 4263-4266.   | 4.1  | 80        |
| 10 | Cyclic aromatic oligoamides as highly selective receptors for the guanidinium ion. <i>Chemical Communications</i> , 2005, , 4720.  | 4.1  | 73        |
| 11 | Two-Component Supramolecular Gels Derived from Amphiphilic Shape-Persistent Cyclo[6]aramides for Specific Recognition of Native Arginine. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11834-11839.  | 13.8 | 70        |
| 12 | Liquid-Crystalline Mesogens Based on Cyclo[6]aramides: Distinctive Phase Transitions in Response to Macrocyclic Host-Guest Interactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11147-11152.   | 13.8 | 58        |
| 13 | Synthesis of Crescent Aromatic Oligoamides. <i>Journal of Organic Chemistry</i> , 2005, 70, 10660-10669.   | 3.2  | 51        |
| 14 | A non-symmetric pillar[5]arene based on triazole-linked 8-oxyquinolines as a sequential sensor for thorium( <sup>IV</sup> ) followed by fluoride ions. <i>Dalton Transactions</i> , 2015, 44, 14584-14588.   | 3.3  | 50        |
| 15 | Highly efficient extraction of actinides with pillar[5]arene-derived diglycolamides in ionic liquids via a unique mechanism involving competitive host-guest interactions. <i>Dalton Transactions</i> , 2016, 45, 19299-19310.                               | 3.3  | 49        |
| 16 | Shape-persistent macrocyclic aromatic tetrasulfonamides: Molecules with nanosized cavities and their nanotubular assemblies in solid state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10850-10855. | 7.1  | 47        |
| 17 | A Dynamic Hydrogen-Bonded Azo-Macrocyclic for Precisely Photo-Controlled Molecular Encapsulation and Release. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12519-12523.  | 13.8 | 44        |
| 18 | Aromatic oligoamide macrocycles from the bimolecular coupling of folded oligomeric precursors. <i>New Journal of Chemistry</i> , 2009, 33, 729.  | 2.8  | 40        |

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|----|---|------|-----------|
| 19 | Highly selective extraction of uranium from nitric acid medium with phosphine oxide functionalized pillar[5]arenes in room temperature ionic liquid. <i>Separation and Purification Technology</i> , 2018, 192, 152-159.                            | 7.9  | 37        |
| 20 | Nonaggregational Shape-Persistent Cyclo[6]aramide and Its Macrocyclic Effect toward Binding Secondary Ammonium Salts in Moderately Polar Media. <i>Organic Letters</i> , 2013, 15, 4670-4673.   | 4.6  | 35        |
| 21 | Convergent heteroditopic cyclo[6]aramides as macrocyclic ion-pair receptors for constructing [2]pseudorotaxanes. <i>Chemical Communications</i> , 2014, 50, 8024.   | 4.1  | 34        |
| 22 | Shape-persistent macrocycles: efficient extraction towards lanthanide and actinide elements. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2012, 72, 367-373.   | 1.6  | 33        |
| 23 | Pillar[5]arenes bearing phosphine oxide pendants as Hg <sup>2+</sup> selective receptors. <i>Talanta</i> , 2014, 125, 322-328.  | 5.5  | 33        |
| 24 | Recent Advances of Photoresponsive Supramolecular Switches. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 74-90.  | 2.7  | 33        |
| 25 | Highly Selective Fluorescent Recognition towards Th <sup>4+</sup> Based on Coumarin $\epsilon$ derivatized Crescent Aromatic Oligoamide. <i>Chinese Journal of Chemistry</i> , 2013, 31, 689-694.   | 4.9  | 32        |
| 26 | Macrocyclic shape-persistence of cyclo[6]aramide results in enhanced multipoint recognition for the highly efficient template-directed synthesis of rotaxanes. <i>Chemical Science</i> , 2017, 8, 2091-2100.  | 7.4  | 32        |
| 27 | Single-molecule observation of the K <sup>+</sup> -induced switching of valinomycin within a template network. <i>Chemical Communications</i> , 2013, 49, 9021.   | 4.1  | 31        |
| 28 | Luminescence investigation on Eu <sup>3+</sup> -pillar[5]arene-based diglycolamide (DGA) complexes: Nature of the complex, Judd $\epsilon$ -Ofelt calculations and effect of ligand structure. <i>Journal of Luminescence</i> , 2015, 158, 356-364. | 3.1  | 31        |
| 29 | Cyclo[6]aramide-Tropylium Charge Transfer Complex as a Colorimetric Chemosensor for Differentiation of Intimate and Loose Ion Pairs. <i>Organic Letters</i> , 2015, 17, 5950-5953.  | 4.6  | 29        |
| 30 | Solvent extraction of thorium( <sup>IV</sup> ) and rare earth elements with novel polyaramide extractant containing preorganized chelating groups. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1930-1936.                   | 3.2  | 28        |
| 31 | CMPO-calix[4]arenes with spacer containing intramolecular hydrogen bonding: Effect of local rigidification on solvent extraction toward f-block elements. <i>Journal of Hazardous Materials</i> , 2014, 264, 211-218.                               | 12.4 | 25        |
| 32 | Phosphorous $\epsilon$ -Based Pillar[5]arenes for Uranyl Extraction. <i>Chinese Journal of Chemistry</i> , 2015, 33, 361-367.   | 4.9  | 25        |
| 33 | Macrocyclic aromatic tetrasulfonamides with a stable cone conformation. <i>Chemical Communications</i> , 2005, , 3788.  | 4.1  | 24        |
| 34 | Convergent Ditopic Receptors Enhance Anion Binding upon Alkali Metal Complexation for Catalyzing the Ritter Reaction. <i>Organic Letters</i> , 2019, 21, 652-655.   | 4.6  | 23        |
| 35 | Phosphine oxides functionalized pillar[5]arenes for uranyl extraction: Solvent effect and thermodynamics. <i>Separation and Purification Technology</i> , 2020, 230, 115843.  | 7.9  | 23        |
| 36 | An insight into the extraction of transition metal ions by picolinamides associated with intramolecular hydrogen bonding and rotational isomerization. <i>RSC Advances</i> , 2014, 4, 29702-29714.  | 3.6  | 21        |

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|----|--|------|-----------|
| 37 | Highly efficient and selective pillararene-based organic materials for Hg <sup>2+</sup> and CH <sub>3</sub> Hg <sup>+</sup> extraction from aqueous solution. <i>Chemical Engineering Journal</i> , 2020, 387, 124087.                             | 12.7 | 21        |
| 38 | Highly efficient actinide(III)/lanthanide(III) separation by novel pillar[5]arene-based picolinamide ligands: A study on synthesis, solvent extraction and complexation. <i>Journal of Hazardous Materials</i> , 2021, 405, 124214.                | 12.4 | 21        |
| 39 | Covalent triazine frameworks for the selective sorption of palladium from highly acidic radioactive liquid wastes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27320-27331.   | 10.3 | 20        |
| 40 | Reversibly Tunable Lower Critical Solution Temperature Behavior Induced by H-Bonded Aromatic Amide Macrocycle and Imidazolium Host-Guest Complexation. <i>Organic Letters</i> , 2017, 19, 18-21.   | 4.6  | 19        |
| 41 | Controllable photomechanical bending of metal-organic rotaxane crystals facilitated by regioselective confined-space photodimerization. <i>Nature Communications</i> , 2022, 13, 2030.   | 12.8 | 19        |
| 42 | A rare case for binding a diquat salt by two cyclo[6]aramides. <i>Supramolecular Chemistry</i> , 2015, 27, 436-443.  | 1.2  | 18        |
| 43 | Probing of the local environment and calculation of J.O. parameters for Eu <sup>3+</sup> CMPO functionalized pillararene complexes by time resolved fluorescence spectroscopy. <i>Journal of Luminescence</i> , 2015, 166, 187-194.                | 3.1  | 18        |
| 44 | A Dynamic Hydrogen-Bonded Azo-Macrocycle for Precisely Photo-Controlled Molecular Encapsulation and Release. <i>Angewandte Chemie</i> , 2019, 131, 12649-12653.  | 2.0  | 18        |
| 45 | An Azobenzene-Modified Photoresponsive Thorium-Organic Framework: Monitoring and Quantitative Analysis of Reversible <i>cis</i> Photoisomerization. <i>Inorganic Chemistry</i> , 2021, 60, 8519-8529.  | 4.0  | 18        |
| 46 | Understanding the extraction and complexation of thorium using structurally modified CMPO functionalized pillar[5]arenes in ionic liquid: Experimental and theoretical investigations. <i>Inorganic Chemistry Communication</i> , 2017, 75, 33-36. | 3.9  | 17        |
| 47 | Synthesis of crescent aromatic oligoamides with preorganized chelating groups and their extraction towards transition metal ions. <i>Journal of Hazardous Materials</i> , 2012, 217-218, 171-176.  | 12.4 | 16        |
| 48 | Unusual binding selectivity with non-selective homoditopic pillar[5]arene oxime: serendipitous discovery of a unique approach to heterobinuclear metalation in solution. <i>Chemical Communications</i> , 2017, 53, 2838-2841.                     | 4.1  | 16        |
| 49 | Endowing 2,6-bis-triazolyl-pyridine of poor extraction with superior efficiency for actinide/lanthanide separation at high acidity by anchoring to a macrocyclic scaffold. <i>Journal of Hazardous Materials</i> , 2021, 416, 125745.              | 12.4 | 15        |
| 50 | Extraction of actinide ions using three CMPO-functionalized pillar[5]arenes in a room temperature ionic liquid. <i>Separation and Purification Technology</i> , 2018, 195, 224-231.  | 7.9  | 14        |
| 51 | A Redox-Responsive Complex System Based on a D Shape-Persistent Cyclo[6]aramide and Ferrocenium. <i>Asian Journal of Organic Chemistry</i> , 2016, 5, 966-970.   | 2.7  | 13        |
| 52 | Ion-pair recognition of amidinium salts by partially hydrogen-bonded heteroditopic cyclo[6]aramide. <i>RSC Advances</i> , 2016, 6, 39839-39845.  | 3.6  | 12        |
| 53 | Strong positive allosteric cooperativity in ternary complexes based on hydrogen-bonded aromatic amide macrocycles. <i>Chemical Communications</i> , 2019, 55, 4869-4872.   | 4.1  | 12        |
| 54 | A review of the alpha radiolysis of extractants for actinide lanthanide separation in spent nuclear fuel reprocessing. <i>Radiochimica Acta</i> , 2021, 109, 603-623.  | 1.2  | 12        |

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|----|---|------|-----------|
| 55 | Radiation stability of phosphine oxide functionalized pillar[5]arenes. <i>Radiochimica Acta</i> , 2019, 107, 713-724.   | 1.2  | 11        |
| 56 | Pyridine-incorporated cyclo[6]aramide for recognition of urea and its derivatives with two different binding modes. <i>Supramolecular Chemistry</i> , 2017, 29, 730-740.  | 1.2  | 10        |
| 57 | The cytochrome <i>c</i> –cyclo[6]aramide complex as a supramolecular catalyst in methanol. <i>New Journal of Chemistry</i> , 2018, 42, 3857-3866.   | 2.8  | 10        |
| 58 | Controlling the selective synthesis of [2]- and [3]rotaxanes by intermolecular steric hindrance between the macrocyclic hosts. <i>Chemical Communications</i> , 2020, 56, 1066-1069.  | 4.1  | 10        |
| 59 | Complexation of Actinides with Phosphine Oxide Functionalized Pillar[5]arenes: Extraction and Spectroscopic Studies. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4022-4030.  | 2.0  | 8         |
| 60 | Light-controlled switchable complexation by a non-photoresponsive hydrogen-bonded amide macrocycle. <i>Organic Chemistry Frontiers</i> , 2020, 7, 846-855.  | 4.5  | 8         |
| 61 | Crescent aromatic oligothioamides as highly selective receptors for copper(II) ion. <i>Science China Chemistry</i> , 2014, 57, 1246-1256.   | 8.2  | 7         |
| 62 | Radiation stability of alkylated pillar[5]arenes. <i>Radiation Physics and Chemistry</i> , 2019, 161, 1-8.  | 2.8  | 7         |
| 63 | Threading of three rings on two stations: a convergent approach to [4]rotaxane. <i>Chemical Communications</i> , 2021, 57, 13506-13509.   | 4.1  | 7         |
| 64 | Highly efficient synthesis of hydrogen-bonded aromatic tetramers as macrocyclic receptors for selective recognition of lithium ions. <i>Organic Chemistry Frontiers</i> , 2019, 6, 2654-2661.   | 4.5  | 6         |
| 65 | Chiroptical Sensing of Amino Acid Derivatives by Host–Guest Complexation with Cyclo[6]aramide. <i>Molecules</i> , 2021, 26, 4064.   | 3.8  | 6         |
| 66 | Novel triazine-based cationic covalent organic polymers for highly efficient and selective removal of selenate from contaminated water. <i>Journal of Hazardous Materials</i> , 2022, 436, 129127.  | 12.4 | 6         |
| 67 | Highly efficient extraction of tetra- and hexavalent plutonium using DGA functionalized pillar[5]arene in RTIL: Understanding speciation, thermodynamics and radiolytic stability. <i>Separation Science and Technology</i> , 2017, , 1-10. | 2.5  | 5         |
| 68 | Switchable supramolecular ensemble for anion binding with ditopic hydrogen-bonded macrocycles. <i>Organic Chemistry Frontiers</i> , 2021, 8, 5271-5279.   | 4.5  | 5         |
| 69 | Efficient separation of thorium from rare earths with a hydrogen-bonded oligoaramide extractant in highly acidic media. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 305, 543-549.                                       | 1.5  | 4         |
| 70 | Effect of Hydrogen Binding on Selective Recognition of Halide Anions. <i>Chinese Journal of Chemistry</i> , 2016, 34, 866-872.  | 4.9  | 4         |
| 71 | Effect of ionic liquid on the extraction of uranium with pillar[5]arene-based phosphine oxide from nitric acid solutions. <i>Radiochimica Acta</i> , 2020, 108, 239-247.  | 1.2  | 4         |
| 72 | Title is missing!. <i>Die Makromolekulare Chemie</i> , 1993, 194, 1847-1862.  | 1.1  | 3         |

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|----|---|-----|-----------|
| 73 | Direct Perfluorination of an Acid-Sensitive Glycol Ether as Precursor for Perfluoro(2-(methoxymethoxy)ethyl Vinyl Ether). <i>Synthetic Communications</i> , 2012, 42, 959-966.  | 2.1 | 3         |
| 74 | Radiolytic stability of pillar[5]arene-based diglycolamides. <i>Radiochimica Acta</i> , 2020, 108, 889-900.   | 1.2 | 3         |
| 75 | Multiple hydrogen bonding induced self-assembly: transformation from nanofibrils to nanosphere with aromatic oligoamide incorporated polyethylene glycol. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 2861-2869. | 2.2 | 2         |
| 76 | Efficient and selective lanthanide recovery from highly acidic solutions by using a porous pillar[5]arene-based diglycolamide impregnated resin. <i>Hydrometallurgy</i> , 2022, 211, 105867.                                    | 4.3 | 2         |
| 77 | Modular Assembly of Isostructural Mixed-Ligand Uranyl Coordination Polymers Based on a Patterning Strategy. <i>Inorganic Chemistry</i> , 2022, 61, 10694-10704.   | 4.0 | 2         |
| 78 | Synthesis of thymidine derivatives bearing aromatic oligoamides with rigidified backbone. <i>Heterocyclic Communications</i> , 2010, 16, .  | 1.2 | 0         |