

Jovica D BadjiÄ

List of Publications by Year in descending order

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91
papers

4,102
citations

172443

29
h-index

118840

62
g-index

95
all docs

95
docs citations

95
times ranked

3755
citing authors

#	ARTICLE	IF	CITATIONS
1	A Molecular Elevator. <i>Science</i> , 2004, 303, 1845-1849.	12.6	991
2	Multivalency and Cooperativity in Supramolecular Chemistry. <i>Accounts of Chemical Research</i> , 2005, 38, 723-732.	15.6	609
3	Operating Molecular Elevators. <i>Journal of the American Chemical Society</i> , 2006, 128, 1489-1499.	13.7	280
4	Controlling the dynamics of molecular encapsulation and gating. <i>Chemical Society Reviews</i> , 2011, 40, 1609-1622.	38.1	99
5	Effects of Encapsulation in Sol-gel Silica Glass on Esterase Activity, Conformational Stability, and Unfolding of Bovine Carbonic Anhydrase II. <i>Chemistry of Materials</i> , 1999, 11, 3671-3679.	6.7	89
6	Template-Directed Synthesis of Mechanically Interlocked Molecular Bundles Using Dynamic Covalent Chemistry. <i>Organic Letters</i> , 2006, 8, 3899-3902.	4.6	87
7	A Mechanically Interlocked Bundle. <i>Chemistry - A European Journal</i> , 2004, 10, 1926-1935.	3.3	80
8	Can Multivalency Be Expressed Kinetically? The Answer Is Yes. <i>Journal of the American Chemical Society</i> , 2004, 126, 2288-2289.	13.7	80
9	Gated molecular baskets. <i>Chemical Society Reviews</i> , 2015, 44, 500-514.	38.1	80
10	Conjugate of Palladium(II) Complex and β -Cyclodextrin Acts as a Biomimetic Peptidase. <i>Journal of the American Chemical Society</i> , 2004, 126, 696-697.	13.7	76
11	Design, Synthesis, and Conformational Dynamics of a Gated Molecular Basket. <i>Journal of the American Chemical Society</i> , 2006, 128, 5887-5894.	13.7	70
12	Controlling Multivalent Interactions in Triply-Threaded Two-Component Superbundles. <i>Chemistry - A European Journal</i> , 2003, 9, 5348-5360.	3.3	68
13	The Exclusivity of Multivalency in Dynamic Covalent Processes. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3273-3278.	13.8	68
14	Assembly of Amphiphilic Baskets into Stimuli-Responsive Vesicles. Developing a Strategy for the Detection of Organophosphorus Chemical Nerve Agents. <i>Journal of the American Chemical Society</i> , 2013, 135, 14964-14967.	13.7	63
15	Structure-Function Studies of Modular Aromatics That Form Molecular Organogels. <i>Journal of Organic Chemistry</i> , 2007, 72, 7270-7278.	3.2	62
16	Prospects in controlling morphology, dynamics and responsiveness of supramolecular polymers. <i>Soft Matter</i> , 2007, 3, 137-154.	2.7	61
17	A Stimuli-Responsive Molecular Capsule with Switchable Dynamics, Chirality, and Encapsulation Characteristics. <i>Journal of the American Chemical Society</i> , 2018, 140, 11091-11100.	13.7	49
18	Enantioselective Aminolysis of an α -Chloroester Catalyzed by <i>Candida cylindracea</i> Lipase Encapsulated in Sol-gel Silica Glass. <i>Organic Letters</i> , 2001, 3, 2025-2028.	4.6	44

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19	Trapping of Organophosphorus Chemical Nerve Agents in Water with Amino Acid Functionalized Baskets. <i>Chemistry - A European Journal</i> , 2014, 20, 4251-4256.	3.3	41
20	A 3-fold "Butterfly Valve" in Command of the Encapsulation's Kinetic Stability. <i>Molecular Baskets at Work</i> . <i>Journal of the American Chemical Society</i> , 2008, 130, 15127-15133.	13.7	40
21	A Hexapodal Capsule for the Recognition of Anions. <i>Journal of the American Chemical Society</i> , 2021, 143, 3874-3880.	13.7	40
22	Tuning the Rate of Molecular Translocation. <i>Journal of the American Chemical Society</i> , 2009, 131, 7250-7252.	13.7	39
23	Gated Molecular Recognition and Dynamic Discrimination of Guests. <i>Journal of the American Chemical Society</i> , 2010, 132, 773-776.	13.7	39
24	Behavior of organic compounds confined in monoliths of sol-gel silica glass. Effects of guest-host hydrogen bonding on uptake, release, and isomerization of the guest compounds. <i>Journal of Materials Chemistry</i> , 2001, 11, 408-418.	6.7	36
25	Unexpected Interactions between Sol-Gel Silica Glass and Guest Molecules. Extraction of Aromatic Hydrocarbons into Polar Silica from Hydrophobic Solvents. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11081-11087.	2.6	35
26	Molecular Encapsulation via Metal-to-Ligand Coordination in a Cu(I)-Folded Molecular Basket. <i>Journal of Organic Chemistry</i> , 2008, 73, 5100-5109.	3.2	35
27	Recognition Characteristics of an Adaptive Vesicular Assembly of Amphiphilic Baskets for Selective Detection and Mitigation of Toxic Nerve Agents. <i>Journal of the American Chemical Society</i> , 2014, 136, 17337-17342.	13.7	35
28	Dual-Cavity Basket Promotes Encapsulation in Water in an Allosteric Fashion. <i>Journal of the American Chemical Society</i> , 2015, 137, 12276-12281.	13.7	35
29	Supramolecular Catalysis at Work: Diastereoselective Synthesis of a Molecular Bowl with Dynamic Inner Space. <i>Journal of Organic Chemistry</i> , 2008, 73, 355-363.	3.2	32
30	Russian Nesting Doll Complexes of Molecular Baskets and Zinc Containing TPA Ligands. <i>Journal of the American Chemical Society</i> , 2016, 138, 8253-8258.	13.7	31
31	Removal of Nerve Agent Simulants from Water Using Light-Responsive Molecular Baskets. <i>Journal of the American Chemical Society</i> , 2017, 139, 18496-18499.	13.7	31
32	Encapsulation of Guests within a Gated Molecular Basket: Thermodynamics and Selectivity. <i>Organic Letters</i> , 2008, 10, 5361-5364.	4.6	29
33	Design, Preparation, and Study of Catalytic Gated Baskets. <i>Journal of Organic Chemistry</i> , 2012, 77, 2675-2688.	3.2	25
34	The Prospect of Selective Recognition of Nerve Agents with Modular Basket-like Hosts. A Structure-Activity Study of the Entrapment of a Series of Organophosphonates in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3240-3249.	2.6	25
35	Urea-Catalyzed N-H Insertion Arylation Reactions of Nitrodiazoesters. <i>Journal of Organic Chemistry</i> , 2014, 79, 4832-4842.	3.2	24
36	On the role of guests in enforcing the mechanism of action of gated baskets. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7667.	2.8	23

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37	The Entrapment of Chiral Guests with Gated Baskets: Can a Kinetic Discrimination of Enantiomers Be Governed through Gating?. <i>Chemistry - A European Journal</i> , 2013, 19, 4767-4775.	3.3	22
38	Silver(I) Mediated Folding of a Molecular Basket. <i>Organic Letters</i> , 2007, 9, 2301-2304.	4.6	20
39	A stereodynamic and redox-switchable encapsulation-complex containing a copper ion held by a tris-quinoliny basket. <i>Chemical Communications</i> , 2012, 48, 4429.	4.1	19
40	A Molecular Claw: A Dynamic Cavitand Host. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11313-11316.	13.8	19
41	Dissipative Formation of Covalent Basket Cages. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	19
42	Molecular Recognition of a Transition State. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4816-4819.	13.8	18
43	Ubiquitous Assembly of Amphiphilic Baskets into Unilamellar Vesicles and Their Recognition Characteristics. <i>Organic Letters</i> , 2015, 17, 852-855.	4.6	18
44	Two-Dimensional Supramolecular Polymers Embodying Large Unilamellar Vesicles in Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 11312-11317.	13.7	18
45	From Selection to Instruction and Back: Competing Conformational Selection and Induced Fit Pathways in Abiotic Hosts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19942-19948.	13.8	18
46	Four-State Switching Characteristics of a Gated Molecular Basket. <i>Organic Letters</i> , 2009, 11, 2495-2498.	4.6	17
47	Twistâ€œTurnâ€œTwist Motif Chaperoned Inside Molecular Baskets. <i>Journal of the American Chemical Society</i> , 2019, 141, 16600-16604.	13.7	16
48	On the encapsulation and assembly of anticancer drugs in a cooperative fashion. <i>Chemical Science</i> , 2019, 10, 5678-5685.	7.4	16
49	Tuning the allosteric sequestration of anticancer drugs for developing cooperative nano-antidotes. <i>Chemical Communications</i> , 2020, 56, 1271-1274.	4.1	16
50	The Effect of the Dynamics of Revolving Gates on the Kinetics of Molecular Encapsulationâ€œThe Activity/Selectivity Relationship. <i>Chemistry - A European Journal</i> , 2011, 17, 2562-2565.	3.3	15
51	Kinetically and thermodynamically controlled syntheses of covalent molecular capsules. <i>Advances in Physical Organic Chemistry</i> , 2011, 45, 1-37.	0.5	15
52	Molecular Recognition of Nerve Agents and Their Organophosphorus Surrogates: Toward Supramolecular Scavengers and Catalysts. <i>Chemistry - A European Journal</i> , 2021, 27, 13280-13305.	3.3	15
53	Picking on Carbonate: Kinetic Selectivity in the Encapsulation of Anions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
54	Controlling dynamic stereoisomerism in transition-metal folded baskets. <i>Chemical Science</i> , 2011, 2, 752.	7.4	14

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55	Photo-induced formation of organic nanoparticles possessing enhanced affinities for complexing nerve agent mimics. <i>Chemical Communications</i> , 2019, 55, 1987-1990.	4.1	13
56	Multivalent CâˆHâˆ...âˆ...Cl/BrâˆC Interactions Directing the Resolution of Dynamic and Twisted Capsules. <i>Chemistry - A European Journal</i> , 2019, 25, 13124-13130.	3.3	12
57	Reactivity of Organic Compounds Inside Micelles Embedded in SolâˆGel Glass. Kinetics of Isomerization of Azobenzene Inside CTAB and SDS Micelles Embedded in Silica Matrix. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7482-7489.	2.6	11
58	A highly diastereoselective synthesis of deep molecular baskets. <i>Chemical Communications</i> , 2020, 56, 10243-10246.	4.1	11
59	Allosteric Regulation of the Conformational Dynamics of a Cavitand Receptor. <i>Organic Letters</i> , 2006, 8, 3697-3700.	4.6	10
60	Method for the Preparation of Derivatives of Heptiptycene: Toward Dual-Cavity Baskets. <i>Journal of Organic Chemistry</i> , 2013, 78, 2984-2991.	3.2	10
61	Gating the Trafficking of Molecules across Vesicular Membrane Composed of Dual-Cavity Baskets. <i>Chemistry of Materials</i> , 2016, 28, 8128-8131.	6.7	10
62	Examining the Scope and Thermodynamics of Assembly in Nesting Complexes Comprising Molecular Baskets and TPA Ligands. <i>Organic Letters</i> , 2017, 19, 4932-4935.	4.6	10
63	Lightâ€Triggered Transformation of Molecular Baskets into Organic Nanoparticles. <i>Chemistry - A European Journal</i> , 2019, 25, 273-279.	3.3	10
64	Photoinduced interruption of interannular cooperativity for delivery of cationic guests in water. <i>Chemical Communications</i> , 2020, 56, 2987-2990.	4.1	10
65	Twisted Baskets. <i>Chemistry - A European Journal</i> , 2015, 21, 3550-3555.	3.3	9
66	A close inspection of Ag(I) coordination to molecular baskets. A study of solvation and guest encapsulation in solution and the solid state. <i>Tetrahedron</i> , 2009, 65, 7213-7219.	1.9	8
67	Enantioselective Legoâ€like Construction of Modular and Asymmetric Baskets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25075-25081.	13.8	8
68	The Role of Chirality in Directing the Formation of Cupâ€Shaped Porphyrins and the Coordination Characteristics of such Hosts. <i>Chemistry - A European Journal</i> , 2011, 17, 8870-8881.	3.3	7
69	Fulleropyrrolidine molecular dumbbells act as multi-electron-acceptor triads. Spectroscopic, electrochemical, computational and morphological characterizations. <i>RSC Advances</i> , 2015, 5, 88241-88248.	3.6	7
70	On the mechanism of action of gated molecular baskets: The synchronicity of the revolving motion of gates and in/out trafficking of guests. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 90-99.	2.2	6
71	Multivalent and Photoresponsive Assembly of Dualâ€Cavity Baskets in Water. <i>Chemistry - A European Journal</i> , 2017, 23, 8829-8833.	3.3	6
72	An Acidâ€Catalyzed Cyclialkylation that Provides Rapid Access to a Twisted Molecular Basket. <i>Chemistry - A European Journal</i> , 2012, 18, 8301-8305.	3.3	5

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73	On the Transfer of Chirality, Thermodynamic Stability, and Folding Characteristics of Stereoisomeric Gated Baskets. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6832-6840.	2.4	5
74	Assembly and Folding of Twisted Baskets in Organic Solvents. <i>Organic Letters</i> , 2016, 18, 4238-4241.	4.6	5
75	Stereo- and regioselective halogenation of norbornenes directed by neighboring group participation. <i>Tetrahedron Letters</i> , 2016, 57, 5584-5587.	1.4	5
76	Stereo- and Regioselective Synthesis of Molecular Baskets. <i>Journal of Organic Chemistry</i> , 2019, 84, 4392-4401.	3.2	5
77	Stackable molecular chairs. <i>Chemical Communications</i> , 2019, 55, 5479-5482.	4.1	5
78	A Hexavalent Basket for Bottomâ€Up Construction of Functional Soft Materials and Polyvalent Drugs through a â€Clickâ€Reaction. <i>Chemistry - A European Journal</i> , 2019, 25, 1242-1248.	3.3	5
79	Cross-reactive binding versus selective phosphate sensing in an imine macrocycle sensor. <i>CheM</i> , 2022, 8, 2228-2244.	11.7	5
80	From Selection to Instruction and Back: Competing Conformational Selection and Induced Fit Pathways in Abiotic Hosts. <i>Angewandte Chemie</i> , 2021, 133, 20095-20101.	2.0	4
81	Enantioselective Legoâ€like Construction of Modular and Asymmetric Baskets. <i>Angewandte Chemie</i> , 2021, 133, 25279.	2.0	4
82	Dissipative Formation of Covalent Basket Cages. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
83	On the Nature of the Transition State Characterizing Gated Molecular Encapsulations. <i>Molecules</i> , 2014, 19, 14292-14303.	3.8	2
84	An easily accessible isospiropyran switch. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9124-9128.	2.8	2
85	One-Pot Aldol Cascade for the Preparation of Isospiropyrans, Flavylium Salts, and bis-Spiropyrans. <i>Journal of Organic Chemistry</i> , 2020, 85, 8013-8020.	3.2	2
86	A double-decker cage for allosteric encapsulation of ATP. <i>Chemical Communications</i> , 2022, 58, 5992-5995.	4.1	2
87	A computational study of competing conformational selection and induced fit in an abiotic system. <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 507-511.	2.8	1
88	Picking on Carbonate: Kinetic Selectivity in the Encapsulation of Anions. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
89	Multivalent CâˆHâ€...â€...Cl/BrâˆC Interactions Directing the Resolution of Dynamic and Twisted Csules. <i>Chemistry - A European Journal</i> , 2019, 25, 13048-13048.	3.3	0
90	A Molecular Capsule with Revolving Doors Partitioning Its Inner Space. <i>Chemistry - A European Journal</i> , 2020, 26, 16480-16485.	3.3	0

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91	Frontispiece: Molecular Recognition of Nerve Agents and Their Organophosphorus Surrogates: Toward Supramolecular Scavengers and Catalysts. Chemistry - A European Journal, 2021, 27, .	3.3	0