

Vincenzo Balzani

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219
papers

27,515
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82
h-index

165
g-index

231
ext. papers

28,623
ext. citations

11
avg, IF

6.71
L-index

#	Paper	IF	Citations
219	Artificial Molecular Machines. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 3348-3391	16.4	2027
218	Luminescent and Redox-Active Polynuclear Transition Metal Complexes. <i>Chemical Reviews</i> , 1996 , 96, 759-834	68.1	1944
217	Ruthenium(II) and Osmium(II) Bis(terpyridine) Complexes in Covalently-Linked Multicomponent Systems: Synthesis, Electrochemical Behavior, Absorption Spectra, and Photochemical and Photophysical Properties. <i>Chemical Reviews</i> , 1994 , 94, 993-1019	68.1	1291
216	A molecular elevator. <i>Science</i> , 2004 , 303, 1845-9	33.3	929
215	Designing Dendrimers Based on Transition-Metal Complexes. Light-Harvesting Properties and Predetermined Redox Patterns. <i>Accounts of Chemical Research</i> , 1998 , 31, 26-34	24.3	777
214	Molecular Machines. <i>Accounts of Chemical Research</i> , 1998 , 31, 405-414	24.3	671
213	Molecular meccano. 1. [2]Rotaxanes and a [2]catenane made to order. <i>Journal of the American Chemical Society</i> , 1992 , 114, 193-218	16.4	671
212	Photochemistry and Photophysics of Coordination Compounds: Ruthenium 2007 , 117-214		635
211	The hydrogen issue. <i>ChemSusChem</i> , 2011 , 4, 21-36	8.3	594
210	Molecular devices and machines. <i>Nano Today</i> , 2007 , 2, 18-25	17.9	518
209	Logic Operations at the Molecular Level. An XOR Gate Based on a Molecular Machine. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2679-2681	16.4	463
208	Artificial molecular-level machines: which energy to make them work?. <i>Accounts of Chemical Research</i> , 2001 , 34, 445-55	24.3	450
207	Künstliche molekulare Maschinen. <i>Angewandte Chemie</i> , 2000 , 112, 3484-3530	3.6	443
206	Light powered molecular machines. <i>Chemical Society Reviews</i> , 2009 , 38, 1542-50	58.5	427
205	Autonomous artificial nanomotor powered by sunlight. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 1178-83	11.5	418
204	Complexes of the Ruthenium(II)-2,2':6',2''-terpyridine Family. Effect of Electron-Accepting and -Donating Substituents on the Photophysical and Electrochemical Properties. <i>Inorganic Chemistry</i> , 1995 , 34, 2759-2767	5.1	394
203	Bimolecular electron transfer reactions of the excited states of transition metal complexes 1978 , 1-64		351

202	Photochemistry and photophysics of Ru(II) polypyridine complexes in the Bologna group. From early studies to recent developments. <i>Coordination Chemistry Reviews</i> , 2001 , 211, 97-115	23.2	347
201	Towards an electricity-powered world. <i>Energy and Environmental Science</i> , 2011 , 4, 3193	35.4	328
200	Acid-Base Controllable Molecular Shuttles. <i>Journal of the American Chemical Society</i> , 1998 , 120, 11932-11942	16.4	308
199	Rotaxanes Incorporating Two Different Coordinating Units in Their Thread: Synthesis and Electrochemically and Photochemically Induced Molecular Motions. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4397-4408	16.4	294
198	A Chemically and Electrochemically Switchable [2]Catenane Incorporating a Tetrathiafulvalene Unit. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 333-337	16.4	280
197	A photochemically driven molecular-level abacus. <i>Chemistry - A European Journal</i> , 2000 , 6, 3558-74	4.8	267
196	Operating molecular elevators. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1489-99	16.4	266
195	Decanuclear homo- and heterometallic polypyridine complexes: syntheses, absorption spectra, luminescence, electrochemical oxidation, and intercomponent energy transfer. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2944-2950	16.4	264
194	Anion Selective Recognition and Sensing by Novel Macrocyclic Transition Metal Receptor Systems. ¹ H NMR, Electrochemical, and Photophysical Investigations. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11864-11875	16.4	261
193	Molecular logic circuits. <i>ChemPhysChem</i> , 2003 , 4, 49-59	3.2	246
192	Solar Electricity and Solar Fuels: Status and Perspectives in the Context of the Energy Transition. <i>Chemistry - A European Journal</i> , 2016 , 22, 32-57	4.8	239
191	Ru(II)-bipyridine complexes in supramolecular systems, devices and machines. <i>Coordination Chemistry Reviews</i> , 2006 , 250, 1254-1266	23.2	228
190	A Three-Pole Supramolecular Switch. <i>Journal of the American Chemical Society</i> , 1999 , 121, 3951-3957	16.4	228
189	Rigid Rod-Like Dinuclear Ru(II)/Os(II) Terpyridine-Type Complexes. Electrochemical Behavior, Absorption Spectra, Luminescence Properties, and Electronic Energy Transfer through Phenylene Bridges. <i>Journal of the American Chemical Society</i> , 1994 , 116, 7692-7699	16.4	217
188	Photonic Wires of Nanometric Dimensions. Electronic Energy Transfer in Rigid Rodlike Ru(bpy) ₃ ²⁺ -(ph) _n -Os(bpy) ₃ ²⁺ Compounds (ph = 1,4-Phenylene; n = 3, 5, 7). <i>Journal of the American Chemical Society</i> , 1999 , 121, 4207-4214	16.4	216
187	Switching of pseudorotaxanes and catenanes incorporating a tetrathiafulvalene unit by redox and chemical inputs. <i>Journal of Organic Chemistry</i> , 2000 , 65, 1924-36	4.2	214
186	Electrochemically and Photochemically Driven Ring Motions in a Disymmetrical Copper [2]-Catenate. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12114-12124	16.4	213
185	Artificial nanomachines based on interlocked molecular species: recent advances. <i>Chemical Society Reviews</i> , 2006 , 35, 1135-49	58.5	212

- 184 Toward Photoswitchable Dendritic Hosts. Interaction between Azobenzene-Functionalized Dendrimers and Eosin. *Journal of the American Chemical Society*, **1998**, 120, 12187-12191 16.4 206
- 183 A Photochemically Driven Molecular Machine. *Angewandte Chemie International Edition in English*, **1993**, 32, 1301-1303 198
- 182 Dendrimers with a Photoactive and Redox-Active [Ru(bpy)₃]²⁺-Type Core: Photophysical Properties, Electrochemical Behavior, and Excited-State Electron-Transfer Reactions. *Journal of the American Chemical Society*, **1999**, 121, 6290-6298 16.4 196
- 181 Azobenzene-Functionalized Cascade Molecules: Photoswitchable Supramolecular Systems. *Chemistry - A European Journal*, **1998**, 4, 699-706 4.8 193
- 180 Dendrimers of Nanometer Size Based on Metal Complexes: Luminescent and Redox-Active Polynuclear Metal Complexes Containing up to Twenty-Two Metal Centers. *Chemistry - A European Journal*, **1995**, 1, 211-221 4.8 189
- 179 Simple Mechanical Molecular and Supramolecular Machines: Photochemical and Electrochemical Control of Switching Processes. *Chemistry - A European Journal*, **1997**, 3, 152-170 4.8 182
- 178 Luminescent and redox-reactive building blocks for the design of photochemical molecular devices: mono-, di-, tri-, and tetranuclear ruthenium(II) polypyridine complexes. *Inorganic Chemistry*, **1990**, 29, 4750-4758 5.1 180
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- 176 Controllable donor-acceptor neutral [2]rotaxanes. *Chemistry - A European Journal*, **2004**, 10, 6375-92 4.8 173
- 175 Self-Assembly, Spectroscopic, and Electrochemical Properties of [n]Rotaxanes¹. *Journal of the American Chemical Society*, **1996**, 118, 4931-4951 16.4 173
- 174 Vertical and "nonvertical" energy transfer processes. A general classical treatment. *Journal of the American Chemical Society*, **1980**, 102, 2152-2163 16.4 173
- 173 Artificial Chemical Systems Capable of Mimicking Some Elementary Properties of Neurons. *Journal of the American Chemical Society*, **2000**, 122, 4496-4498 16.4 169
- 172 Dendritic Bipyridine Ligands and Their Tris(Bipyridine)Ruthenium(II) Chelates: Syntheses, Absorption Spectra, and Photophysical Properties. *Chemistry - A European Journal*, **1997**, 3, 706-712 4.8 162
- 171 Arborols Based on Luminescent and Redox-Active Transition Metal Complexes. *Angewandte Chemie International Edition in English*, **1992**, 31, 1493-1495 146
- 170 Photochromism of 4-Methoxyflavylium Perchlorate. A Write-Lock-Read-Unlock-Erase Molecular Switching System. *Journal of the American Chemical Society*, **1997**, 119, 5556-5561 16.4 144
- 169 Redox-controllable amphiphilic [2]rotaxanes. *Chemistry - A European Journal*, **2004**, 10, 155-72 4.8 140
- 168 Electrochemically Induced Molecular Motions in Pseudorotaxanes: A Case of Dual-Mode (Oxidative and Reductive) Dethreading. *Chemistry - A European Journal*, **1997**, 3, 1992-1996 4.8 134
- 167 Photochemistry and Photophysics of Coordination Compounds: Overview and General Concepts **2007**, 1-36 134

- 166 Molecular Meccano. 4. The Self-Assembly of [2]Catenanes Incorporating Photoactive π -Extended Systems. *Journal of the American Chemical Society*, **1995**, 117, 11171-11197 16.4 134
- 165 Tetranuclear Bimetallic Complexes of Ruthenium, Osmium, Rhodium, and Iridium. Synthesis, Absorption Spectra, Luminescence, and Electrochemical Properties. *Journal of the American Chemical Society*, **1994**, 116, 9086-9091 16.4 133
- 164 The Slipping Approach to Self-Assembling [n]Rotaxanes. *Journal of the American Chemical Society*, **1997**, 119, 302-310 16.4 131
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- 158 Processing energy and signals by molecular and supramolecular systems. *Chemistry - A European Journal*, **2008**, 14, 26-39 4.8 115
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- 155 Dicopper(I) trefoil knots and related unknotted molecular systems: influence of ring size and structural factors on their synthesis and electrochemical and excited-state properties. *Journal of the American Chemical Society*, **1993**, 115, 11237-11244 16.4 113
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- 153 The bottom-up approach to molecular-level devices and machines. *Chemistry - A European Journal*, **2002**, 8, 5524-32 4.8 110
- 152 A Light-Fueled Piston Cylinder Molecular-Level Machine. *Journal of the American Chemical Society*, **1998**, 120, 11190-11191 16.4 104
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- 147 Electrochemical and photophysical properties of new triazole-bridged heterobimetallic ruthenium-rhodium and ruthenium-iridium complexes. *Inorganic Chemistry*, **1992**, 31, 3518-3522 5.1 96
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- 145 Energy-transfer processes of excited states of coordination compounds. *Journal of Chemical Education*, **1983**, 60, 814 2.4 89
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- 143 Electrochemistry of Multicomponent Systems. Redox Series Comprising up to 26 Reversible Reduction Processes in Polynuclear Ruthenium(II) Bipyridine-Type Complexes. *Journal of the American Chemical Society*, **1999**, 121, 10081-10091 16.4 87
- 142 Simple Molecular Machines: Chemically Driven Unthreading and Rethreading of a [2]Pseudorotaxane. *Angewandte Chemie International Edition in English*, **1996**, 35, 978-981 85
- 141 Controlled disassembling of self-assembling systems: toward artificial molecular-level devices and machines. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 4814-4815 84
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- 136 Catenated Cyclodextrins. *Chemistry - A European Journal*, **1995**, 1, 33-55 4.8 81
- 135 A tridecanuclear ruthenium(II)-polypyridine supramolecular species: synthesis, absorption and luminescence properties and electrochemical oxidation. *Inorganic Chemistry*, **1992**, 31, 2982-2984 5.1 81
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- 132 Simple molecular-level machines. Interchange between different threads in pseudorotaxanes. *New Journal of Chemistry*, **1998**, 22, 1061-1065 3.6 76
- 131 Harvesting sunlight by artificial supramolecular antennae. *Solar Energy Materials and Solar Cells*, **1995**, 38, 159-173 6.4 76

130	Proton-driven self-assembled systems based on cyclam-cored dendrimers and [Ru(bpy)(CN) ₄] ²⁻ . <i>Journal of the American Chemical Society</i> , 2004 , 126, 16466-71	16.4	74
129	Photochromic flavylum compounds as multistate/multifunction molecular-level systems. <i>Chemical Communications</i> , 1999 , 107-114	5.8	73
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127	RuII-Polypyridine Complexes Covalently Linked to Electron Acceptors as Wires for Light-Driven Pseudorotaxane-Type Molecular Machines. <i>Chemistry - A European Journal</i> , 1998 , 4, 2413-2422	4.8	68
126	Dual-mode "co-conformational" switching in catenanes incorporating bipyridinium and dialkylammonium recognition sites. <i>Chemistry - A European Journal</i> , 2001 , 7, 3482-93	4.8	68
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124	A new hetero-tetrametallic complex of ruthenium and osmium: absorption spectrum, luminescence properties, and electrochemical behaviour. <i>Journal of the Chemical Society Chemical Communications</i> , 1989 , 1500		68
123	Photophysical, photochemical, and electrochemical properties of mononuclear and dinuclear ruthenium(II) complexes containing 2,2'-bipyridine and the 3,5-bis(pyridin-2-yl)-1,2,4-triazolate ion. <i>Inorganic Chemistry</i> , 1989 , 28, 4344-4350	5.1	67
122	Artificial Molecular Motors and Machines: Design Principles and Prototype Systems 1-27		66
121	Supramolecular Photochemistry and Photophysics. A [3]-Catenand and its Mononuclear and Homo- and Heterodinuclear [3]-Catenates. <i>Journal of the American Chemical Society</i> , 1994 , 116, 5211-5217	16.4	65
120	Rigid Rodlike Metal Complexes of Nanometric Dimension: Synthesis, Luminescence Properties, and Long-Range Energy Transfer. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 1643-1646		65
119	Controlling Catenations, Properties and Relative Ring-Component Movements in Catenanes with Aromatic Fluorine Substituents. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12503-12513	16.4	63
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116	Nanoscience and nanotechnology: a personal view of a chemist. <i>Small</i> , 2005 , 1, 278-83	11	62
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114	Absorption and emission properties of a 2-catenand, its protonated forms, and its complexes with Li ⁺ , Cu ⁺ , Ag ⁺ , Co ²⁺ , Ni ²⁺ , Zn ²⁺ , Pd ²⁺ and Cd ²⁺ : tuning of the luminescence over the whole visible spectral region. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993 , 3241		59
113	Aggregation of self-assembling branched [n]rotaxanes. <i>New Journal of Chemistry</i> , 1998 , 22, 959-972	3.6	58

112	Rigid Rodlike Dinuclear Ru/Os Complexes of a Novel Bridging Ligand. Intercomponent Energy and Electron-Transfer Processes. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16786-16788		57
111	Photoinduced electron flow in a self-assembling supramolecular extension cable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18411-6	11.5	55
110	Directional energy transfer in a luminescent tetranuclear Ru(II) polypyridine complex that contains two different types of bridging ligands. <i>Inorganica Chimica Acta</i> , 1991 , 182, 127-129	2.7	55
109	Syntheses, absorption spectra, luminescence properties, and electrochemical behavior of mono- and binuclear ruthenium(II) complexes of isomeric bis(2-pyridyl)pyrazines. <i>Inorganic Chemistry</i> , 1989 , 28, 2565-2570	5.1	54
108	Anthracene-Containing [2]Rotaxanes: Synthesis, Spectroscopic, and Electrochemical Properties. <i>European Journal of Organic Chemistry</i> , 2000 , 2000, 591-602	3.2	53
107	Cyclophanes and [2]Catenanes as Ligands for Transition Metal Complexes: Synthesis, Structure, Absorption Spectra, and Excited State and Electrochemical Properties. <i>Chemistry - A European Journal</i> , 1998 , 4, 590-607	4.8	52
106	Photoredox Catalysis: The Need to Elucidate the Photochemical Mechanism. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12820-12821	16.4	50
105	Pseudorotaxanes and Catenanes Containing a Redox-Active Unit Derived from Tetrathiafulvalene. <i>European Journal of Organic Chemistry</i> , 1999 , 1999, 985-994	3.2	50
104	Mononuclear and dinuclear osmium(II) compounds containing 2,2'-bipyridine and 3,5-bis(pyridin-2-yl)-1,2,4-triazole: synthesis, electrochemistry, absorption spectra, and luminescence properties. <i>Inorganic Chemistry</i> , 1991 , 30, 641-645	5.1	50
103	Electrochemistry of coordination compounds: an extended view. <i>Coordination Chemistry Reviews</i> , 1999 , 185-186, 233-256	23.2	49
102	Synthesis, X-ray Structure, and Electrochemical and Excited-State Properties of Multicomponent Complexes Made of a [Ru(Tpy) ₂] ²⁺ Unit Covalently Linked to a [2]-Catenate Moiety. Controlling the Energy-Transfer Direction by Changing the Catenate Metal Ion. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5481-5488	16.4	49
101	NEW TRENDS IN THE DESIGN OF LUMINESCENT METAL COMPLEXES*. <i>Photochemistry and Photobiology</i> , 1990 , 52, 409-416	3.6	49
100	Electrochemistry and spectroelectrochemistry of ruthenium(II)-bipyridine building blocks. Different behaviour of the 2,3- and 2,5-bis(2-pyridyl)pyrazine bridging ligands. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 532, 99-112	4.1	47
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96	Complete charge pooling is prevented in viologen-based dendrimers by self-protection. <i>Chemistry - A European Journal</i> , 2004 , 10, 6361-8	4.8	41
95	The self assembly of controllable [2]catenanes. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 177-180		41

94	Photoprocesses. <i>Current Opinion in Chemical Biology</i> , 1997 , 1, 506-13	9.7	40
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87	Dinuclear europium(3+), terbium(3+) and gadolinium(3+) complexes of a branched hexaazacyclooctadecane ligand containing six 2,2'-bipyridine pendant units. <i>Inorganic Chemistry</i> , 1993 , 32, 1237-1241	5.1	36
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83	Endoreceptors with Convergent Phenanthroline Units: A Molecular Cavity for Six Guest Molecules. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 1333-1336		32
82	. <i>European Journal of Organic Chemistry</i> , 2000 , 2000, 1121-1130	3.2	31
81	Switchable photoreduction pathways of antimony(V) tetraphenylporphyrin. A potential multielectron transfer photosensitizer. <i>Chemical Communications</i> , 1996 , 1643-1644	5.8	30
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29	Bottom-up Approach to Nanotechnology: Molecular-Level Devices 2000 , 1-21		1
28	Energy from the Atom 65-82		1
27	Scenarios for the Future 209-218		0
26	Appendix: Did You Know That 2010 , 315-320		
25	The Energy Challenge 2010 , 1-10		
24	Other Renewables 2010 , 231-250		
23	Hydrogen 2010 , 279-299		

- 22 The Challenge Ahead **2010**, 301-314
- 21 Concepts and Misconcepts **2010**, 11-24
- 20 Energy in History **2010**, 25-37
- 19 Oil **2010**, 39-67
- 18 Fossil Legacy **2010**, 97-122
- 17 Molecular-Level Machines **2004**, 931-938
- 16 What is Energy? 5-16
- 15 Energy from the Sun 83-97
- 14 How Much Energy Goes to Waste? 31-40
- 13 Fukushima and the Future of Nuclear Energy 115-126
- 12 Energy USA 153-179
- 11 Appendix A: 17 Myths to be Dispelled 219-223
- 10 Appendix B: Maybe You Didn't Know That 225-228
- 9 Yesterday and Today 17-29
- 8 Energy Italy 127-132
- 7 Energy from Air, Water, and Land 99-113
- 6 Global Trends 201-207
- 5 Collateral Damage 55-63

4 Appendix D: Bibliography 231-234

3 Energy Canada 133-152

2 Energy in the Spaceship's Hold 41-53

1 Energy UK 181-199