

# Irina A Balova

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

920  
citations

394421

19  
h-index

501196

28  
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57  
docs citations

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times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperbranched polymer immobilized palladium nanoparticles as an efficient and reusable catalyst for cyanation of aryl halides and reduction of nitroarenes. <i>Journal of Organometallic Chemistry</i> , 2022, 970-971, 122359.	1.8	2
2	4,5-Bis(arylethynyl)-1,2,3-triazoles – A New Class of Fluorescent Labels: Synthesis and Applications. <i>Molecules</i> , 2022, 27, 3191.	3.8	5
3	The carbene transfer to strong Lewis acids: copper is better than silver. <i>Dalton Transactions</i> , 2021, 50, 2872-2879.	3.3	8
4	Design and Synthesis of New 5-aryl-4-Arylethynyl-1H-1,2,3-triazoles with Valuable Photophysical and Biological Properties. <i>Molecules</i> , 2021, 26, 2801.	3.8	7
5	Heterocycloalkynes Fused to a Heterocyclic Core: Searching for an Island with Optimal Stability-Reactivity Balance. <i>Journal of the American Chemical Society</i> , 2021, 143, 16519-16537.	13.7	15
6	Alternative Transformations of N-Heterocyclic Carbene Complexes of the Group 11 Metals in Transmetalation Reactions (A Review). <i>Russian Journal of General Chemistry</i> , 2021, 91, 2194-2248.	0.8	3
7	4-Azidocinnoline – Cinnoline-4-amine Pair as a New Fluorogenic and Fluorochromic Environment-Sensitive Probe. <i>Molecules</i> , 2021, 26, 7460.	3.8	2
8	N-Propargylation and Copper(I)-Catalyzed Azide-Alkyne Cycloaddition as a Convenient Strategy for Directed Post-Synthetic Modification of 4-Oxo-1,4-Dihydrocinnoline Derivatives. <i>Chemistry of Heterocyclic Compounds</i> , 2020, 56, 915-922.	1.2	8
9	5-Iodo-1H-1,2,3-triazoles as Versatile Building Blocks. <i>Synthesis</i> , 2020, 52, 1874-1896.	2.3	15
10	Intramolecular Nicholas Reactions in the Synthesis of Heteroenediyne Fused to Indole, Triazole, and Isocoumarin. <i>Journal of Organic Chemistry</i> , 2020, 85, 9001-9014.	3.2	15
11	A.E.Favorskii – TM's scientific legacy in modern organic chemistry: prototropic acetylene – allene isomerization and the acetylene zipper reaction. <i>Russian Chemical Reviews</i> , 2020, 89, 125-171.	6.5	7
12	Copper-based nanocatalysts produced via laser-induced ex situ generation for homo- and cross-coupling reactions. <i>Chemical Engineering Science</i> , 2020, 227, 115940.	3.8	6
13	Intramolecular hydrogen bonding stabilizes trans-configuration in a mixed carbene/isocyanide PdII complexes. <i>Journal of Organometallic Chemistry</i> , 2020, 912, 121174.	1.8	27
14	In situ laser-induced synthesis of gas sensing microcomposites based on molybdenum and its oxides. <i>Composites Part B: Engineering</i> , 2019, 157, 322-330.	12.0	15
15	Synthesis and Properties of 6-Aryl-4-azidocinnolines and 6-Aryl-4-(1,2,3-1H-triazol-1-yl)cinnolines. <i>Molecules</i> , 2019, 24, 2386.	3.8	7
16	1-Iodobuta-1,3-diyne in Copper-Catalyzed Azide – Alkyne Cycloaddition: A One-Step Route to 4-Ethynyl-5-iodo-1,2,3-triazoles. <i>Journal of Organic Chemistry</i> , 2019, 84, 1925-1940.	3.2	21
17	10-Membered Azaenediyne Fused to a Benzothiophene through the Nicholas Macrocyclization: Synthesis and DNA Cleavage Ability. <i>Synlett</i> , 2019, 30, 161-166.	1.8	9
18	Relative Reactivity of Benzothiophene-Fused Eneidyne in the Bergman Cyclization. <i>Journal of Organic Chemistry</i> , 2018, 83, 2788-2801.	3.2	23

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19	Influence of the ligand nature on the in situ laser-induced synthesis of the electrocatalytically active copper microstructures. <i>Arabian Journal of Chemistry</i> , 2018, 11, 624-634.	4.9	9
20	In situ laser-induced codeposition of copper and different metals for fabrication of microcomposite sensor-active materials. <i>Analytica Chimica Acta</i> , 2018, 1044, 138-146.	5.4	20
21	Polystyrene-Supported Acyclic Diaminocarbene Palladium Complexes in Sonogashira Cross-Coupling: Stability vs. Catalytic Activity. <i>Catalysts</i> , 2018, 8, 141.	3.5	35
22	Modern Trends of Organic Chemistry in Russian Universities. <i>Russian Journal of Organic Chemistry</i> , 2018, 54, 157-371.	0.8	68
23	Functionalized buta-1,3-diyne- <i>N</i> -methylpyrazoles by sequential $\alpha$ -diacetylene zipper and Sonogashira coupling reactions. <i>Tetrahedron Letters</i> , 2017, 58, 762-765.	1.4	7
24	Synthesis and Simple Immobilization of Palladium(II) Acyclic Diaminocarbene Complexes on Polystyrene Support as Efficient Catalysts for Sonogashira and Suzuki-Miyaura Cross-Coupling. <i>Organometallics</i> , 2016, 35, 1684-1697.	2.3	79
25	Oxaenediynes through the Nicholas-type Macrocyclization Approach. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 4842-4851.	2.4	15
26	Towards Isocoumarin-Fused Eneidyne Systems through the Electrophilic Cyclization of Methyl (buta-1,3-diyne)benzoates. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 739-747.	2.4	10
27	Synthesis and chemosensing properties of cinnoline-containing poly(arylene ethynylene)s. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 373-384.	2.2	19
28	Ring-Closing Metathesis of $\text{Co}_2(\text{CO})_6$ -Alkyne Complexes for the Synthesis of 11-Membered Denediynes: Overcoming Thermodynamic Barriers. <i>Journal of Organic Chemistry</i> , 2015, 80, 5546-5555.	3.2	17
29	Synthesis of 2-(buta-1,3-diyne)- <i>N,N</i> -dimethylanilines Using Reductive Methylation Step. <i>Mendeleev Communications</i> , 2014, 24, 102-104.	1.6	4
30	Electrophilic Cyclization of Aryldiacetylenes in the Synthesis of Functionalized Eneidiynes Fused to a Heterocyclic Core. <i>Journal of Organic Chemistry</i> , 2014, 79, 9018-9045.	3.2	64
31	An acetylene zipper-Sonogashira reaction sequence for the efficient synthesis of conjugated arylalkadiynols. <i>Tetrahedron Letters</i> , 2013, 54, 2235-2238.	1.4	11
32	Catalytic activity of palladium acyclic diaminocarbene complexes in the synthesis of 1,3-diarylpropynones via Sonogashira reaction: cross- versus homo-coupling. <i>Tetrahedron Letters</i> , 2013, 54, 2369-2372.	1.4	35
33	Electrophilic Cyclization and Ring-Closing Metathesis as Key Steps in the Synthesis of a 12-Membered Cyclic Eneidyne. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 5660-5664.	2.4	11
34	Synthesis and Reactivity of Cinnoline-Fused Cyclic Eneidyne. <i>Journal of Organic Chemistry</i> , 2011, 76, 6937-6941.	3.2	27
35	Highly Stereoselective 1,3-Dipolar Cycloaddition of Nitrones to (Nitrile) $_2$ Pt <sup>II</sup> Species Furnishing Diastereomerically Pure 2,3-Dihydro-1,2,4-oxadiazole Ligands. <i>Organometallics</i> , 2011, 30, 595-602.	2.3	24
36	Substituent R-Dependent Regioselectivity Switch in Nucleophilic Addition of <i>N</i> -Phenylbenzamidine to Pd <sup>II</sup> - and Pt <sup>II</sup> -Complexed Isonitrile $\text{RN} \equiv \text{C}$ Giving Aminocarbene-Like Species. <i>Organometallics</i> , 2011, 30, 863-874.	2.3	65

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37	Access to 2,3-bis(buta-1,3-diynyl)pyridines. <i>Mendeleev Communications</i> , 2011, 21, 19-20.	1.6	3
38	Electrophilic Cyclization of Buta-1,3-diynylarenes: Synthesis of Precursors of (Z)-3-Ene-1,5-diyne Systems Fused to Heterocycles. <i>Synlett</i> , 2011, 2011, 517-520.	1.8	5
39	A short route to 3-alkynyl-4-bromo(chloro)cinnolines by Richter-type cyclization of ortho-(dodeca-1,3-diynyl)aryltriaz-1-enes. <i>Tetrahedron Letters</i> , 2009, 50, 6358-6360.	1.4	25
40	Pt <sup>II</sup> -Mediated 1,3-Dipolar Cycloaddition of Oxazoline <i>N</i> -Oxides to Nitriles as a Key Step to Dihydrooxazolo-1,2,4-oxadiazoles. <i>Inorganic Chemistry</i> , 2007, 46, 8323-8331.	4.0	25
41	The Richter reaction of ortho-(alka-1,3-diynyl)aryldiazonium salts. <i>Tetrahedron Letters</i> , 2007, 48, 4907-4909.	1.4	25
42	Tetrachloridobis{(E)-1-[(E)-(1R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-ylideneaminoxy]propylideneamine}platinum(IV). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, m589-m590.	0.2	0
43	A Convenient Synthesis of Functionalised 1-Aryl-1,3-alkadiynes. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 882-888.	2.4	21
44	A Convenient Synthesis of Functionalized 1-Aryl-1,3-alkadiynes.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
45	A One-Pot Synthesis of 1-Arylalka-1,3-diyne by Sequential Acetylene Zipper and Sonogashira Reactions.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
46	A one-pot synthesis of 1-arylalka-1,3-diyne by sequential acetylene zipper and Sonogashira reactions. <i>Tetrahedron Letters</i> , 2003, 44, 107-109.	1.4	21
47	Reactions of [H <sub>2</sub> O <sub>3</sub> (CO) <sub>10</sub> ] with Conjugated Diynes (RC <sub>2</sub> C <sub>2</sub> R <sup>ε</sup> ) Containing Nucleophilic Oxygen in <sup>η</sup> 2-Position of a Substituent (R = Ph, R <sup>ε</sup> = CH <sub>2</sub> OH, C(O)Ph; R = R <sup>ε</sup> = CMe <sub>2</sub> (OH)). <i>Organometallics</i> , 2003, 22, 3455-3465.	2.3	19
48	Unusual C-H bond activation <sup>α</sup> aldol condensation of aromatic aldehydes with the methyl group of a carbene-like triosmium cluster. <i>Dalton Transactions RSC</i> , 2002, , 827.	2.3	14
49	Reactions of Diacetylene Ligands with Trinuclear Clusters. 3. Cyclization of Diynes with <sup>η</sup> 2-Amino Moieties on the Metal Core of [H <sub>2</sub> O <sub>3</sub> (CO) <sub>10</sub> ]. <i>Organometallics</i> , 2001, 20, 3854-3863.	2.3	22
50	One-bond <sup>13</sup> C- <sup>13</sup> C couplings in diacetylenes: experimental and theoretical studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1999, 55, 817-824.	3.9	7
51	Fixation of DNA directly on optical waveguide surfaces for molecular probe biosensor development. <i>Sensors and Actuators B: Chemical</i> , 1995, 29, 324-327.	7.8	18