Laurent Djakovitch

List of Publications by Year
in descending order

116 papers	5,136 citations	101543 36 h-index	91884 69 g-index
137 all docs	137 docs citations	137 times ranked	4497 citing authors

#	Article	IF	Citations
1	Transition Metalâ€Catalysed, Direct and Siteâ€Selective N1â€, C2â€•or C3â€Arylation of the Indole Nucleus: 20 Years of Improvements. Advanced Synthesis and Catalysis, 2009, 351, 673-714.	4.3	453
2	Glycerol hydrogenolysis on heterogeneous catalysts. Green Chemistry, 2004, 6, 359.	9.0	436
3	Heck Reaction Catalyzed by Pd-Modified Zeolites. Journal of the American Chemical Society, 2001, 123, 5990-5999.	13.7	353
4	Progress in palladium-based catalytic systems for the sustainable synthesis of annulated heterocycles: a focus on indole backbones. Chemical Society Reviews, 2012, 41, 3929.	38.1	321
5	â€œOn Waterâ€•Direct and Siteâ€Selective Pdâ€Catalysed Cï£¿H Arylation of (NH)â€Indoles. Advanced Synthesis and Catalysis, 2010, 352, 2929-2936.	4.3	143
6	Supported palladium as catalyst for carbonâ€“carbon bond construction (Heck reaction) in organic synthesis. Catalysis Today, 2001, 66, 105-114.	4.4	137
7	Organometallic Molecular Trees as Multielectron and Multiproton Reservoirs: CpFe+-Induced Nonaallylation of Mesitylene and Phase-Transfer Catalyzed Synthesis of a Redox-Active Nonairon Complex. Angewandte Chemie International Edition in English, 1993, 32, 1075-1077.	4.4	136
8	Sonogashira Cross-Coupling Reactions Catalysed by Copper-Free Palladium Zeolites. Advanced Synthesis and Catalysis, 2004, 346, 1782-1792.	4.3	132
9	Heterogeneously catalysed Heck reaction using palladium modified zeolites. Journal of Molecular Catalysis A, 1999, 142, 275-284.	4.8	120
10	Organoiron Route to a New Dendron for Fast Dendritic Syntheses Using Divergent and Convergent Methods. Journal of the American Chemical Society, 1999, 121, 2929-2930.	13.7	113
11	Sonogashira cross-coupling reactions catalysed by heterogeneous copper-free Pd-zeolites. Tetrahedron Letters, 2004, 45, 1367-1370.	1.4	112
12	Heterogeneous Palladium Catalysts Applied to the Synthesis of 2- and 2,3-Functionalised Indoles. Advanced Synthesis and Catalysis, 2006, 348, 715-724.	4.3	111
13	Pd-catalyzed Heck arylation of cycloalkenesâ€"studies on selectivity comparing homogeneous and heterogeneous catalysts. Journal of Molecular Catalysis A, 2004, 219, 121-130.	4.8	110
14	Palladium on activated carbon: a valuable heterogeneous catalyst for one-pot multi-step synthesis. Applied Catalysis A: General, 2004, 265, 161-169.	4.3	108
15	Copper-free heterogeneous catalysts for the Sonogashira cross-coupling reaction: Preparation, characterisation, activity and applications for organic synthesis. Journal of Molecular Catalysis A, 2005, 241, 39-51.	4.8	99
16	Heck reactions catalyzed by oxide-supported palladium â€“ structureâ€“activity relationships. Topics in Catalysis, 2000, 13, 319-326.	2.8	93
17	First heterogeneously palladium-catalysed fully selective C3-arylation of free NH-indoles. Tetrahedron Letters, 2008, 49, 2499-2502.	1.4	91
18	Direct Câ€‰sp²ï£¿H and Câ€‰sp³ï£¿H Arylation Enabled by Heterogeneous Palladium Catalysts. ChemCatChem, 2014, 6, 2175-2187.	3.7	81

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19	Heck reactions between aryl halides and olefins catalysed by Pd-complexes entrapped into zeolites NaY. Journal of Organometallic Chemistry, 1999, 584, 16-26.	1.8	77
20	On the role of the atmosphere in the catalytic glycerol transformation over iridium-based catalysts. Catalysis Communications, 2011, 16, 144-149.	3.3	67
21	From glycerol to lactic acid under inert conditions in the presence of platinum-based catalysts: The influence of support. Catalysis Today, 2015, 257, 267-273.	4.4	61
22	Heterogeneous Transformation of Glycerol to Lactic Acid. Topics in Catalysis, 2012, 55, 474-479.	2.8	60
23	New hetero-bimetallic Pd-Cu catalysts for the one-pot indole synthesis via the Sonogashira reaction. Journal of Molecular Catalysis A, 2004, 212, 43-52.	4.8	54
24	First Heterogeneous Ligandâ€•and Saltâ€Free Larock Indole Synthesis. Advanced Synthesis and Catalysis, 2009, 351, 2055-2062.	4.3	53
25	New homogeneously and heterogeneously [Pd/Cu]-catalysed C3-alkenylation of free NH-indoles. Journal of Molecular Catalysis A, 2007, 273, 230-239.	4.8	51
26	Reductive or oxidative catalytic lignin depolymerization: An overview of recent advances. Catalysis Today, 2021, 373, 24-37.	4.4	47
27	Recent Advances in the Synthesis of N-Containing Heteroaromatics via Heterogeneously Transition Metal Catalysed Cross-Coupling Reactions. Molecules, 2011, 16, 5241-5267.	3.8	43
28	Metallorganische molekulare BÃume als Mehrelektronenâ€•und Mehrprotonenspeicher: CpFe⁺â€•induzierte Nonaallylierung von Mesitylen und phasentransferkatalysierte Synthese eines redoxaktiven Nonaeisenkomplexes. Angewandte Chemie, 1993, 105, 1132-1134.	2.0	42
29	Palladium complexes grafted onto mesoporous silica catalysed the double carbonylation of aryl iodides with amines to give Î±-ketoamides. Catalysis Science and Technology, 2012, 2, 1886.	4.1	42
30	Processing Pine Wood into Vanillin and Glucose by Sequential Catalytic Oxidation and Enzymatic Hydrolysis. Journal of Wood Chemistry and Technology, 2017, 37, 43-51.	1.7	42
31	The First Organometallic Dendrimers: Design and Redox Functions. , 2000, , 229-259.		42
32	Carbonylative Sonogashira Coupling in the Synthesis of Ynones: A Study of â€œBoomerangâ€•Phenomena. Advanced Synthesis and Catalysis, 2013, 355, 2604-2616.	4.3	40
33	Heterogeneous metallo-organocatalysis for the selective one-pot synthesis of 2-benzylidene-indoxyl and 2-phenyl-4-quinolone. Tetrahedron, 2011, 67, 976-981.	1.9	39
34	Preparation of functional styrenes from biosourced carboxylic acids by copper catalyzed decarboxylation in PEG. Green Chemistry, 2014, 16, 3089.	9.0	39
35	Heck Arylation of Î±,Î²-Unsaturated Aldehydes. Advanced Synthesis and Catalysis, 2003, 345, 612-619.	4.3	38
36	Optimised procedures for the one-pot selective syntheses of indoxyls and 4-quinolones by a carbonylative Sonogashira/cyclisation sequence. Applied Catalysis A: General, 2009, 369, 125-132.	4.3	38

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37	Amination of aryl bromides catalysed by supported palladium. Journal of Organometallic Chemistry, 1999, 592, 225-234.	1.8	37
38	Efficient Heterogeneously Palladium-Catalysed Heck Arylation of Acrolein Diethyl Acetal. Selective Synthesis of Cinnamaldehydesor 3-Arylpropionic Esters. Advanced Synthesis and Catalysis, 2007, 349, 1128-1140.	4.3	37
39	New chiral bis(oxazoline) Rh(I)-, Ir(I)- and Ru(II)-complexes for asymmetric transfer hydrogenations of ketones. Tetrahedron Letters, 2004, 45, 2235-2238.	1.4	36
40	First heterogeneously palladium catalysed Î±-arylation of diethyl malonate. Journal of Organometallic Chemistry, 2000, 606, 101-107.	1.8	35
41	Efficient heterogeneous vinylation of aryl halides using potassium vinyltrifluoroborate. Tetrahedron Letters, 2008, 49, 4738-4741.	1.4	34
42	Oneâ€Pot Suzuki/Heck Sequence for the Synthesis of (<i>E</i>)â€Stilbenes Featuring a Recyclable Silicaâ€Supported Palladium Catalyst <i>via</i> a Multiâ€Component Reaction in 1,3â€Propanediol. Advanced Synthesis and Catalysis, 2010, 352, 1993-2001.	4.3	34
43	Heterogeneously Pd/C catalysed procedure for the vinylation of aryl bromides. Applied Catalysis A: General, 2009, 360, 145-153.	4.3	32
44	Larock heteroannulation of 2-bromoanilines with internal alkynes via ligand and salt free Pd/C catalysed reaction. Tetrahedron Letters, 2011, 52, 1916-1918.	1.4	30
45	Oxidative depolymerization of lignins for producing aromatics: variation of botanical origin and extraction methods. Biomass Conversion and Biorefinery, 2022, 12, 3795-3808.	4.6	29
46	Influence of the catalytic conditions on the selectivity of the Pd-catalyzed Heck arylation of acrolein derivatives. Tetrahedron Letters, 2006, 47, 3839-3842.	1.4	28
47	Larock indole synthesis using palladium complexes immobilized onto mesoporous silica. Applied Catalysis A: General, 2010, 388, 179-187.	4.3	28
48	Rearrangements of phenylthio substituted 1,n-diols with toluene-p-sulfonic acid and with toluene-p-sulfonyl chloride. Tetrahedron Letters, 1995, 36, 1723-1726.	1.4	27
49	Synthesis of diethyl 2-(aryl)vinylphosphonates by the Heck reaction catalysed by well-defined palladium complexes. Journal of Organometallic Chemistry, 2009, 694, 3222-3231.	1.8	27
50	Environmentally friendly [Pd/Cu]-catalysed C3-alkenylation of free NH-indoles. Catalysis Today, 2009, 140, 90-99.	4.4	27
51	Heterolytic Câ€“O cleavage in arylethers activated by [Fe(Î·5-C5H5)]+. Journal of the Chemical Society Chemical Communications, 1995, , 463-464.	2.0	24
52	Selective arylation of 2-substituted indoles towards 1,2- and 2,3-functional indoles directed through the catalytic system. Catalysis Communications, 2007, 8, 1561-1566.	3.3	24
53	Supported-Metal Catalysts in Upgrading Lignin to Aromatics by Oxidative Depolymerization. Catalysts, 2021, 11, 467.	3.5	24
54	Activation of aryl ethers and aryl sulfides by the Fe(Î·5-C5H5)+ group for the synthesis of phenol dendrons and arene-centered poly-olefin dendrimers. New Journal of Chemistry, 2000, 24, 351-370.	2.8	23

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55	Synthesis of diethyl 2-(aryl)vinylphosphonate by the Heck reaction catalysed by supported palladium catalysts. Applied Catalysis A: General, 2010, 388, 124-133.	4.3	23
56	Green catalytic processing of native and organosolv lignins. Catalysis Today, 2018, 309, 18-30.	4.4	23
57	Palladium-based innovative catalytic procedures: Designing new homogeneous and heterogeneous catalysts for the synthesis and functionalisation of N-containing heteroaromatic compounds. Catalysis Today, 2011, 173, 2-14.	4.4	22
58	Sulfation of arabinogalactan by sulfamic acid in dioxane. Russian Journal of Bioorganic Chemistry, 2015, 41, 725-731.	1.0	22
59	Copper(II)-phenanthroline hybrid material as efficient catalyst for the multicomponent synthesis of 1,2,3-triazoles via sequential azide formation/1,3-dipolar cycloaddition. Molecular Catalysis, 2017, 437, 150-157.	2.0	20
60	Amination of aryl chlorides and fluorides toward the synthesis of aromatic amines by palladium-catalyzed route or transition metal free way: Scopes and limitations. Journal of Molecular Catalysis A, 2009, 303, 15-22.	4.8	18
61	Green biorefinery of larch wood biomass to obtain the bioactive compounds, functional polymers and nanoporous materials. Wood Science and Technology, 2018, 52, 1377-1394.	3.2	17
62	Comparative study of solvolysis of technical lignins in flow reactor. Biomass Conversion and Biorefinery, 2020, 10, 351-366.	4.6	16
63	Processes of catalytic oxidation for the production of chemicals from softwood biomass. Catalysis Today, 2021, 375, 132-144.	4.4	16
64	Bridged half-sandwich niobiocenes by intramolecular CH activation. Journal of Organometallic Chemistry, 1997, 545-546, 399-405.	1.8	15
65	Half-sandwich and ansa-niobiocenes: synthesis and reactivity. Journal of Organometallic Chemistry, 1998, 562, 71-78.	1.8	15
66	Direct synthesis of tricyclic 5H-pyrido[3,2,1-ij]quinolin-3-one by domino palladium catalyzed reaction. Organic and Biomolecular Chemistry, 2006, 4, 3760-3762.	2.8	14
67	Efficient Heterogeneously Palladium-Catalysed Synthesis of Stilbenes and Bibenzyls. Letters in Organic Chemistry, 2009, 6, 77-81.	0.5	14
68	Optimized methods for obtaining cellulose and cellulose sulfates from birch wood. Wood Science and Technology, 2015, 49, 825-843.	3.2	14
69	Kinetic studies and optimization of abies wood fractionation by hydrogen peroxide under mild conditions with TiO2 catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2017, 120, 81-94.	1.7	14
70	Catalytic hydrogenolysis of native and organosolv lignins of aspen wood to liquid products in supercritical ethanol medium. Catalysis Today, 2021, 379, 114-123.	4.4	14
71	HexahydrozirconationversusHexahydroboration Routes to Hexaiodo Tentacled Aromatic Iron Sandwiches. Synlett, 1992, 1992, 57-58.	1.8	13
72	Heck arylation of acrolein acetals using the 9-bromoanthracene: A case of study. Journal of Organometallic Chemistry, 2008, 693, 2863-2868.	1.8	13

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73	Kinetic study of aspen-wood sawdust delignification by H2O2 with sulfuric acid catalyst under mild conditions. Reaction Kinetics, Mechanisms and Catalysis, 2013, 110, 271-280.	1.7	12
74	Optimizing Single-Stage Processes of Microcrystalline Cellulose Production via the Peroxide Delignification of Wood in the Presence of a Titania Catalyst. Catalysis in Industry, 2018, 10, 360-367.	0.7	12
75	Heterogenization of Pd(II) complexes as catalysts for the Suzuki-Miyaura reaction. Applied Catalysis A: General, 2021, 627, 118381.	4.3	12
76	New chiral oxazoline based-rhodium(I) catalysts: Synthesis, characterisation, heterogeneisation and applications. Journal of Organometallic Chemistry, 2006, 691, 741-747.	1.8	11
77	Synthesis of 2-(arylamino)ethyl phosphonic acids via the aza-Michael addition on diethyl vinylphosphonate. Tetrahedron, 2013, 69, 115-121.	1.9	10
78	Decarboxylative Heterocoupling Coupling of Substituted Benzoic Acids for Biaryl Synthesis. Topics in Catalysis, 2014, 57, 1430-1437.	2.8	10
79	Base directed palladium catalysed Heck arylation of acrolein diethyl acetal in water. Applied Catalysis A: General, 2014, 469, 250-258.	4.3	10
80	Catalytic Liquefaction of Kraft Lignin with Solvothermal Approach. Catalysts, 2021, 11, 875.	3.5	10
81	Synthesis of 3-Arylpropenal and 3-Arylpropionic Acids by Palladium Catalysed Heck Coupling Reactions: Scopes and Limitations. Current Organic Synthesis, 2009, 6, 54-65.	1.3	8
82	Stilbene synthesis through decarboxylative cross-coupling of substituted cinnamic acids with aryl halides. Applied Catalysis A: General, 2018, 560, 132-143.	4.3	8
83	First Example of the Use of Biosourced Alkyl Levulinates as Solvents for Synthetic Chemistry: Application to the Heterogeneously Catalyzed Heck Coupling. ChemistrySelect, 2019, 4, 3329-3333.	1.5	8
84	Catalytic peroxide fractionation processes for the green biorefinery of wood. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 717-735.	1.7	8
85	Kinetic Studies and Optimization of Heterogeneous Catalytic Oxidation Processes for the Green Biorefinery of Wood. Topics in Catalysis, 2020, 63, 229-242.	2.8	8
86	From the grafting of NHC-based Pd(II) complexes onto TiO2 to the in situ generation of Mott-Schottky heterojunctions: The boosting effect in the Suzuki-Miyaura reaction. Do the evolved Pd NPs act as reservoirs?. Journal of Catalysis, 2021, 398, 133-147.	6.2	8
87	Dendrimers containing ferrocenyl or other transition-metal sandwich groups. Advances in Dendritic Macromolecules, 2002, , 89-127.	0.6	8
88	Direct palladium/copper oxidative cross-coupling of Î±-methylstyrene with acrylates. Science China Chemistry, 2010, 53, 1927-1931.	8.2	7
89	Thermal conversion of mechanically activated mixtures of aspen wood-zeolite catalysts in a supercritical ethanol. Journal of Analytical and Applied Pyrolysis, 2018, 132, 237-244.	5.5	7
90	Hydrogenation of cinnamaldehyde with heterogeneous catalyst in the presence of cyclodextrins. Arkivoc, 2011, 2011, 406-415.	0.5	7

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91	Insights into the Suzukiâ€Miyaura Reaction Catalyzed by Novel Pdâ^'Carbene Complexes. Are Palladiumâ^'Tetraâ€•carbene Entities the Key Active Species?. ChemCatChem, 2020, 12, 5797-5808.	3.7	6
92	Selective Aerobic Oxidation of Benzyl Alcohols with Palladium(0) Nanoparticles Suspension in Water. Catalysis Letters, 2021, 151, 3239-3249.	2.6	6
93	HYDROGENATION OF ABIES WOOD AND ETHANOL-LIGNIN BY MOLECULAR HYDROGEN IN SUPERCRITI-CAL ETHANOL OVER BIFUNCTIONAL RU/C CATALYST. Khimiya Rastitel'nogo Syr'ya, 2019, , 15-26.	0.3	6
94	Investigating (Pseudo)-Heterogeneous Pd-Catalysts for Kraft Lignin Depolymerization under Mild Aqueous Basic Conditions. Catalysts, 2021, 11, 1311.	3.5	6
95	Production of Phenolic Compounds from Catalytic Oxidation of Kraft Black Liquor in a Continuous Reactor. Industrial & Engineering Chemistry Research, 2022, 61, 7430-7437.	3.7	6
96	Synthesis of cyclic ethers and allylic sulfides by rearrangement of phenylsulfanyl substituted 1,n-diols with toluene-p-sulfonic acid and with toluene-p-sulfonyl chloride. Journal of the Chemical Society Perkin Transactions 1, 1999, , 2771-2782.	0.9	5
97	Asymmetric reduction of ketones with ruthenium-oxazoline based catalysts. Journal of Molecular Catalysis A, 2008, 287, 142-150.	4.8	5
98	Diffusion of modified vegetables oils in thermoplastic polymers. Materials Chemistry and Physics, 2017, 200, 107-120.	4.0	5
99	Can t-BuOK be a good nucleophile? An ion-pairing answer. Cleavage of aryl ethers in their cationic iron complexes. Arkivoc, 2006, 2006, 173-188.	0.5	5
100	Catalytic Transformations of Carbohydrates. ACS Symposium Series, 2006, , 52-66.	0.5	4
101	First study on telomerization of chitosan and guar hemicellulose with butadiene: Influence of reaction parameters on the substitution degree of the biopolymers. Molecular Catalysis, 2020, 483, 110706.	2.0	4
102	Composition of Liquid Products of Acetonlignin Conversion Over NiCu/SiO2 Catalysts in Supercritical Butanol. Journal of Siberian Federal University: Chemistry, 2015, 8, 465-475.	0.7	4
103	Aqueous Heck Arylation of Acrolein Derivatives: The Role of Cyclodextrin as Additive. Topics in Catalysis, 2014, 57, 1550-1557.	2.8	3
104	Synthesis and Study of Copper-Containing Polymers Based on Sulfated Arabinogalactan. Russian Journal of Bioorganic Chemistry, 2017, 43, 727-731.	1.0	3
105	Kinetic Study and Optimization of Catalytic Peroxide Delignification of Aspen Wood. Kinetics and Catalysis, 2018, 59, 48-57.	1.0	3
106	Synthesis and Study of Copper-Containing Polymers of Microcrystalline Cellulose Sulfates from Larch Wood. Russian Journal of Bioorganic Chemistry, 2018, 44, 834-838.	1.0	3
107	Kinetic Study of the Herrmannâ€"Beller Palladacycle-Catalyzed Suzukiâ€"Miyaura Coupling of 4-Iodoacetophenone and Phenylboronic Acid. Catalysts, 2020, 10, 989.	3.5	3
108	Synthesis of Sulfated Arabinogalactan Derivatives with Histidine and Arginine. Journal of Siberian Federal University: Chemistry, 2016, 9, 318-325.	0.7	3

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109	Synthesis of terpene derivatives of ethanolamine using telomerization reaction. Tetrahedron Letters, 2016, 57, 452-457.	1.4	2
110	Đ¡Đ£Đ›Đ¬ĐĐĐ¢Đ˜ĐĐžĐ'ĐĐĐ˜Đ• ĐĐĐĐ'Đ˜ĐĐžĐ"ĐĐ›ĐĐšĐ¢ĐĐĐ•Đ¡Đ£Đ›Đ¬ĐĐĐœĐ˜ĐĐžĐ'ĐžĐ™ ĐšĐ˜Đ¡Đ›ĐžĐ¢ĐžĐ™ Đ' Đ"Đ˜ĐžĐšĐ¡	0.3	2
111	Catalytic Hydrogenolysis of Glycerol. Chemical Industries, 2008, , 313-318.	0.1	1
112	Study of the Thermochemical Properties of Ethanol Lignins from Abies and Aspen Wood. Journal of Siberian Federal University: Chemistry, 2018, 11, 401-417.	0.7	1
113	A Landscape of Lignocellulosic Biopolymer Transformations into Valuable Molecules by Heterogeneous Catalysis in Câ€™Durable Team at IRCELYON. Molecules, 2021, 26, 6796.	3.8	1
114	Sonogashira Cross-Coupling Reactions Catalyzed by Heterogeneous Copper-Free Pd-Zeolites.. ChemInform, 2004, 35, no.	0.0	0
115	New Chiral Bis(oxazoline) Rh(I)-, Ir(I)- and Ru(II)-Complexes for Asymmetric Transfer Hydrogenations of Ketones.. ChemInform, 2004, 35, no.	0.0	0
116	Đ¡Đ˜ĐĐ¢Đ•Đ— Đ˜ Đ˜Đ—Đ£Đ§Đ•ĐĐ˜Đ• ĐœĐ•Đ"Đ¬Đ¡ĐžĐ"Đ•ĐĐ–ĐĐ©Đ˜Đ¥ ĐŸĐžĐ›Đ˜ĐœĐ•ĐĐžĐ' ĐĐ•ĐžĐ¡ĐĐžĐ'Đ Đ¡Đ£Đ›Đ¬ĐĐĐ¢Đž	0.3	