

# Toshiki Nokami

## List of Publications by Year in descending order

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128  
papers

4,776  
citations

94269

37  
h-index

110170

64  
g-index

163  
all docs

163  
docs citations

163  
times ranked

4213  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer-Bound Pyrene-4,5,9,10-tetraone for Fast-Charge and -Discharge Lithium-Ion Batteries with High Capacity. <i>Journal of the American Chemical Society</i> , 2012, 134, 19694-19700.	6.6	434
2	Generation and Reactions of <i>o</i> -Bromophenyllithium without Benzyne Formation Using a Microreactor. <i>Journal of the American Chemical Society</i> , 2007, 129, 3046-3047.	6.6	245
3	TRPA1 underlies a sensing mechanism for O <sub>2</sub> . <i>Nature Chemical Biology</i> , 2011, 7, 701-711.	3.9	235
4	Diversity-Oriented Synthesis of Multisubstituted Olefins through the Sequential Integration of Palladium-Catalyzed Cross-Coupling Reactions. 2-Pyridyldimethyl(vinyl)silane as a Versatile Platform for Olefin Synthesis. <i>Journal of the American Chemical Society</i> , 2001, 123, 11577-11585.	6.6	178
5	Halogen and Chalcogen Cation Pools Stabilized by DMSO. Versatile Reagents for Alkene Difunctionalization. <i>Journal of the American Chemical Society</i> , 2013, 135, 16070-16073.	6.6	150
6	Introduction of two lithiooxycarbonyl groups enhances cyclability of lithium batteries with organic cathode materials. <i>Journal of Power Sources</i> , 2014, 260, 211-217.	4.0	142
7	Space Integration of Reactions: An Approach to Increase the Capability of Organic Synthesis. <i>Synlett</i> , 2011, 2011, 1189-1194.	1.0	130
8	Integrated Electrochemical Chemical Oxidation Mediated by Alkoxysulfonium Ions. <i>Journal of the American Chemical Society</i> , 2011, 133, 11840-11843.	6.6	119
9	Electrochemical Generation of Glycosyl Triflate Pools. <i>Journal of the American Chemical Society</i> , 2007, 129, 10922-10928.	6.6	116
10	Palladium-Catalyzed Cross-Coupling Reaction of Alkenyldimethyl(2-pyridyl)silanes with Organic Halides: A Complete Switch from the Carbometalation Pathway to the Transmetalation Pathway. <i>Journal of the American Chemical Society</i> , 2001, 123, 5600-5601.	6.6	115
11	Highly Efficient Carbopalladation Across Vinylsilane: Dual Role of the 2-PyMe <sub>2</sub> Si Group as a Directing Group and as a Phase Tag. <i>Journal of the American Chemical Society</i> , 2000, 122, 12013-12014.	6.6	102
12	Integrated Micro Flow Synthesis Based on Sequential Br-Li Exchange Reactions of <i>p</i> - and <i>m</i> - and <i>o</i> -Dibromobenzenes. <i>Chemistry - an Asian Journal</i> , 2007, 2, 1513-1523.	1.7	99
13	Automated Solution-Phase Synthesis of Oligosaccharides via Iterative Electrochemical Assembly of Thioglycosides. <i>Organic Letters</i> , 2013, 15, 4520-4523.	2.4	97
14	Oxidative Hydroxylation Mediated by Alkoxysulfonium Ions. <i>Organic Letters</i> , 2012, 14, 938-941.	2.4	76
15	Indirect Cation-Flow Method: Flash Generation of Alkoxycarbenium Ions and Studies on the Stability of Glycosyl Cations. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5153-5156.	7.2	73
16	Metal-Free Benzylic C-H Amination via Electrochemically Generated Benzylaminosulfonium Ions. <i>Chemistry - A European Journal</i> , 2017, 23, 61-64.	1.7	72
17	Nitrogen-Containing Polycyclic Quinones as Cathode Materials for Lithium-Ion Batteries with Increased Voltage. <i>Energy Technology</i> , 2014, 2, 155-158.	1.8	71
18	<i>p</i> - and <i>o</i> -Glycosyl Sulfonium Ions: Generation and Reactivity. <i>Chemistry - A European Journal</i> , 2009, 15, 2252-2255.	1.7	70

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19	Synthesis of a Sialic Acid $\hat{\pm}$ (2 $\hat{\sim}$ 3) Galactose Building Block and Its Use in a Linear Synthesis of Sialyl Lewis X. <i>Organic Letters</i> , 2007, 9, 1777-1779.	2.4	68
20	Palladium-Catalyzed Convergent Synthesis and Properties of Conjugated Dendrimers Based on Triarylethene Branching. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2404-2409.	7.2	67
21	Stereoselective Synthesis of Multisubstituted Butadienes through Directed Mizoroki $\hat{\sim}$ Heck Reaction and Homocoupling Reaction of Vinyl(2-pyridyl)silane. <i>Organic Letters</i> , 2004, 6, 3695-3698.	2.4	65
22	Oxidative Generation of Diarylcarbenium Ion Pools. <i>Organic Letters</i> , 2006, 8, 5005-5007.	2.4	62
23	Iterative Molecular Assembly Based on the Cation-Pool Method. Convergent Synthesis of Dendritic Molecules. <i>Journal of the American Chemical Society</i> , 2008, 130, 10864-10865.	6.6	60
24	Glycosyl Sulfonium Ions as Storable Intermediates for Glycosylations. <i>Organic Letters</i> , 2011, 13, 1544-1547.	2.4	60
25	A possible means of realizing a sacrifice-free three component separation of lignocellulose from wood biomass using an amino acid ionic liquid. <i>Green Chemistry</i> , 2013, 15, 1863.	4.6	59
26	Pyridylsilyl group-driven cross-coupling reactions. <i>Journal of Organometallic Chemistry</i> , 2002, 653, 105-113.	0.8	58
27	Automated Electrochemical Assembly of the Protected Potential TMG-chitotriomycin Precursor Based on Rational Optimization of the Carbohydrate Building Block. <i>Organic Letters</i> , 2015, 17, 1525-1528.	2.4	55
28	Pyridyl Group Assisted Deprotonation of a Methyl Group on Silicon: $\hat{\Delta}$ Complex Induced Proximity Effect and Novel Hydroxymethylation. <i>Journal of Organic Chemistry</i> , 2001, 66, 3970-3976.	1.7	51
29	CO <sub>2</sub> Solubility in Ether Functionalized Ionic Liquids on Mole Fraction and Molarity Scales. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 525-535.	3.2	51
30	Addition of ArSSAr to dienes via intramolecular C $\hat{\sim}$ C bond formation initiated by a catalytic amount of ArS <sup>+</sup> . <i>Chemical Communications</i> , 2009, , 5448.	2.2	47
31	Synthesis of gem-Difluoromethylene Building Blocks through Regioselective Allylation of gem-Difluorocyclopropanes. <i>Organic Letters</i> , 2014, 16, 2638-2641.	2.4	43
32	Effect of Cation Structure of Ionic Liquids on Anode Properties of Si Electrodes for LIB. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1765-A1771.	1.3	42
33	Design of ionic liquids as liquid desiccant for an air conditioning system. <i>Green Energy and Environment</i> , 2019, 4, 139-145.	4.7	42
34	[Bis(2-pyridyldimethylsilyl)methyl]lithium. New Reagent for the Stereoselective Synthesis of Vinylsilanes. <i>Organic Letters</i> , 2000, 2, 1299-1302.	2.4	41
35	Liquid Quinones for Solvent $\hat{\sim}$ Free Redox Flow Batteries. <i>Advanced Materials</i> , 2017, 29, 1606592.	11.1	41
36	Palladium-Catalyzed Cross-Coupling Reactions of (2-Pyridyl)allyldimethylsilanes with Aryl Iodides. <i>Organic Letters</i> , 2006, 8, 729-731.	2.4	40

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37	Influence of the structure of the anion in an ionic liquid electrolyte on the electrochemical performance of a silicon negative electrode for a lithium-ion battery. <i>Journal of Power Sources</i> , 2017, 338, 103-107.	4.0	40
38	Integration of electrooxidative cyclization and chemical oxidation via alkoxy-sulfonium ions. Synthesis of exocyclic ketones from alkenes with cyclization. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3322.	1.5	36
39	Oligosaccharide Synthesis Based on a One-pot Electrochemical Glycosylation–Fmoc Deprotection Sequence. <i>Chemistry Letters</i> , 2008, 37, 942-943.	0.7	35
40	Addition of ArSSAr to carbon–carbon multiple bonds using electrochemistry. <i>Tetrahedron</i> , 2010, 66, 2823-2829.	1.0	34
41	Generation of Diarylcarbenium Ion Pools via Electrochemical C–H Bond Dissociation. <i>Bulletin of the Chemical Society of Japan</i> , 2009, 82, 594-599.	2.0	33
42	Reaction Integration Using Electrogenerated Cationic Intermediates. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 763-775.	2.0	33
43	2-Pyridyldimethylsilyl as a Removable Hydrophilic Group in Aqueous Diels-Alder Reactions. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1074-1076.	7.2	30
44	Total synthesis of TMG-chitotriomycin based on an automated electrochemical assembly of a disaccharide building block. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 919-924.	1.3	30
45	Electrochemical generation of 2,3-oxazolidinone glycosyl triflates as an intermediate for stereoselective glycosylation. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 456-460.	1.3	29
46	Recent Developments in the “Cation Pool” Method. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2013, 71, 1136-1144.	0.0	29
47	Switching the reaction pathways of electrochemically generated $\hat{2}$ -haloalkoxy-sulfonium ions for synthesis of halohydrins and epoxides. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 242-248.	1.3	28
48	Synergetic Activation of Lipase by an Amino Acid with Alkyl–PEG Sulfate Ionic Liquid. <i>Chemistry Letters</i> , 2013, 42, 663-665.	0.7	27
49	Remarkably improved stability and enhanced activity of a <i>Burkholderia cepacia</i> lipase by coating with a triazolium alkyl-PEG sulfate ionic liquid. <i>Green Chemistry</i> , 2017, 19, 5250-5256.	4.6	27
50	Synthetic carbohydrate research based on organic electrochemistry. <i>Carbohydrate Research</i> , 2012, 363, 1-6.	1.1	26
51	Facile generation of [bis(2-pyridyldimethylsilyl)methyl]lithium and its reaction with carbonyl compounds. New method for the stereoselective synthesis of vinylsilanes. <i>Tetrahedron</i> , 2001, 57, 5045-5054.	1.0	25
52	Rational optimization of the mannoside building block for automated electrochemical assembly of the core trisaccharide of GPI anchor oligosaccharides. <i>Carbohydrate Research</i> , 2017, 450, 44-48.	1.1	24
53	Electrochemical Methods as Enabling Tools for Glycosylation. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1719-1729.	1.3	24
54	Electrochemically Generated ArS(ArSSAr)+B(C <sub>6</sub> F <sub>5</sub> ) <sub>4</sub> <sup>-</sup> as an Activator of Thioglycosides for Glycosylation. <i>Chemistry Letters</i> , 2011, 40, 678-679.	0.7	23

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55	2-Pyridyldimethylsilyl Group as a Removable Hydrophilic Group in Aqueous Organic Reactions: Formation of Molecular Aggregates and Dramatic Rate Enhancement in Diels-Alder Reactions. <i>Advanced Synthesis and Catalysis</i> , 2002, 344, 441-451.	2.1	22
56	A new highly sterically demanding silyl (TEDAMS) group. Synthesis by multiple substitution of tris(diphenylmethyl)silane with diarylcarbenium ions. <i>Tetrahedron Letters</i> , 2010, 51, 4107-4109.	0.7	21
57	Direct dendronization of polystyrenes using dendritic diarylcarbenium ion pools. <i>Chemical Communications</i> , 2011, 47, 5575-5577.	2.2	20
58	Lipase-mediated dynamic kinetic resolution (DKR) of secondary alcohols in the presence of zeolite using an ionic liquid solvent system. <i>Catalysis Today</i> , 2015, 255, 41-48.	2.2	20
59	Recent Progress on Nazarov Cyclizations: The Use of Iron Salts as Catalysts in Ionic Liquid Solvent Systems. <i>Chemical Record</i> , 2016, 16, 1676-1689.	2.9	19
60	Piperidinium-Based Ionic Liquids as an Electrolyte Solvent for Li-Ion Batteries: Effect of Number and Position of Oxygen Atom in Cation Side Chain on Electrolyte Property. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070516.	1.3	19
61	Chemistry of Tertiary Carbon Center in the Formation of Congested C-O Ether Bonds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4329-4334.	7.2	19
62	Synthesis of 2,2-difluoro-homoallylic alcohols via ring-opening of gem-difluorocyclopropane and aerobic oxidation by photo-irradiation in the presence of an organic pigment. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6106-6114.	1.5	18
63	Sulfonium Ions as Reactive Glycosylation Intermediates. <i>Trends in Glycoscience and Glycotechnology</i> , 2012, 24, 203-214.	0.0	17
64	Chemical Glycosylation by Single Electron Transfer. <i>Israel Journal of Chemistry</i> , 2015, 55, 297-305.	1.0	17
65	Automated Electrochemical Assembly of the 1,3- and 1,6-Glucan Hexasaccharide Using Thioglucoside Building Blocks. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1802-1805.	1.3	17
66	Total synthesis of Myc-IV(C16:0, S) via automated electrochemical assembly. <i>Carbohydrate Research</i> , 2020, 492, 108018.	1.1	17
67	Electrochemical synthesis of dendritic diarylcarbenium ion pools. <i>Tetrahedron</i> , 2011, 67, 4664-4671.	1.0	16
68	Phosphonium alkyl PEG sulfate ionic liquids as coating materials for activation of <i>Burkholderia cepacia</i> lipase. <i>Biotechnology Journal</i> , 2015, 10, 1944-1951.	1.8	16
69	The Silyl Effect on the Memory of Chirality in Friedel-Crafts Alkylation Using Chiral Silyl Aryl Alcohols. <i>Organic Letters</i> , 2015, 17, 3182-3185.	2.4	16
70	Synthesis of a TMG-chitotriomycin Precursor Based on Electrolyte-free Electrochemical Glycosylation Using an Ionic Liquid Tag. <i>Chemistry Letters</i> , 2017, 46, 683-685.	0.7	16
71	Enhanced Activity of a Lipase by the Coating with a Quaternary Ammonium Alkyl-PEG Sulfate Ionic Liquid and Cooperative Activation with an Amino Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8541-8545.	3.2	16
72	Effects of the ether oxygen atom in alkyl side chains on the physical properties of piperidinium ionic liquids. <i>Faraday Discussions</i> , 2018, 206, 523-534.	1.6	15

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73	Electrochemical Glycosylation as an Enabling Tool for the Stereoselective Synthesis of Cyclic Oligosaccharides. <i>ChemistryOpen</i> , 2019, 8, 869-872.	0.9	15
74	Synthesis of <i>gem</i> -Difluoromethylene Containing Cycloalkenes via the Ring-Opening Reaction of <i>gem</i> -Difluorocyclopropanes and Subsequent RCM Reaction. <i>Journal of Organic Chemistry</i> , 2019, 84, 5440-5449.	1.7	15
75	Synthesis and Reactions of 1,4-Anhydrogalactopyranose and 1,4-Anhydroarabinose - Steric and Electronic Limitations. <i>Helvetica Chimica Acta</i> , 2005, 88, 2823-2831.	1.0	14
76	Development of n-Type Semiconductor Based on Cyclopentene- or Cyclohexene-Fused [C <sub>60</sub> ]-Fullerene Derivatives. <i>Journal of Organic Chemistry</i> , 2015, 80, 4638-4649.	1.7	14
77	Direct Extraction of Polysaccharides from Moso Bamboo ( <i>Phyllostachys heterocycla</i> ) Chips Using a Mixed Solvent System of an Amino Acid Ionic Liquid with Polar Aprotic Solvent. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 398-404.	2.0	14
78	Visible-Light-Driven Direct 2,2-Difluoroacetylation Using an Organic Pigment Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6533-6542.	3.2	14
79	Generation of pyridyl coordinated organosilicon cation pool by oxidative Si-Si bond dissociation. <i>Beilstein Journal of Organic Chemistry</i> , 2007, 3, 7.	1.3	13
80	Iron-Catalyzed Nazarov Reaction of Indole, Benzofuran, and Benzo[ <i>b</i> ]thiophene Derivatives. <i>Heteroatom Chemistry</i> , 2014, 25, 482-491.	0.4	13
81	Synthesis of Ionic Liquids Equipped with 2-Methoxyethoxymethyl/Methoxymethyl Groups Using a Simple Microreactor System. <i>Organic Process Research and Development</i> , 2014, 18, 1367-1371.	1.3	12
82	Enhanced stability of the HfO <sub>2</sub> electrolyte and reduced working voltage of a CB-RAM by an ionic liquid. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6966-6969.	2.7	12
83	Influence of chirality on the cyclohexene-fused C60 fullerene derivatives as an acceptor partner in a photovoltaic cell. <i>Green Energy and Environment</i> , 2016, 1, 149-155.	4.7	12
84	Generation, Characterization, and Reactions of Thionium Ions Based on the Indirect Cation Pool Method. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 61-66.	2.0	12
85	Extraction of Polysaccharides from Japanese Cedar Using Phosphonate-Derived Polar Ionic Liquids Having Functional Groups. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 879-886.	2.0	12
86	Mixed-Electrolyte-Driven Stereoselective Electrochemical Glycosylation. <i>ChemElectroChem</i> , 2019, 6, 4149-4152.	1.7	12
87	Ionic-Liquid Tag with Multiple Functions in Electrochemical Glycosylation. <i>ChemElectroChem</i> , 2016, 3, 2012-2016.	1.7	11
88	Electrochemical Assembly for Synthesis of Middle-Sized Organic Molecules. <i>Chemical Record</i> , 2021, 21, 2389-2396.	2.9	11
89	Oxo-Thiolation of Cationically Polymerizable Alkenes Using Flow Microreactors. <i>Chemistry - A European Journal</i> , 2019, 25, 15239-15243.	1.7	10
90	Enhanced activity and modified substrate-favoritism of Burkholderia cepacia lipase by the treatment with a pyridinium alkyl-PEG sulfate ionic liquid. <i>Tetrahedron</i> , 2019, 75, 441-447.	1.0	10

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91	Design of quaternary ammonium type-ionic liquids as desiccants for an air-conditioning system. <i>Green Chemical Engineering</i> , 2020, 1, 109-116.	3.3	10
92	Multiple Alkylation of Thiophene Derivatives with Simple and Extended Diarylcarbenium Ion Pools. <i>Electrochemistry</i> , 2013, 81, 399-401.	0.6	9
93	Electrochemical performance of Sn4P3 negative electrode for Na-ion batteries in ether-substituted ionic liquid electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2019, 845, 66-71.	1.9	9
94	Design of Acyl Donor for Environmentally Benign Acylation of Cellulose Using an Ionic Liquid. <i>Australian Journal of Chemistry</i> , 2019, 72, 61.	0.5	9
95	Electrochemical Conversion of Thioglycosides to Glycosyl Triflates. <i>Trends in Glycoscience and Glycotechnology</i> , 2008, 20, 175-185.	0.0	8
96	Photovoltaic Properties of OPV Devices Using <i>cis</i> - and <i>trans</i> -2,5-Diarylfulleropyrrolidines as Acceptor Partners with P3HT on an ITO Electrode with or without PEDOT:PSS. <i>Chemistry Letters</i> , 2013, 42, 1209-1211.	0.7	8
97	Redox active dendronized polystyrenes equipped with peripheral triaryl amines. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 3097-3103.	1.3	8
98	Recent Progress of Chemical Glycosylations and Oligosaccharide Synthesis. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2014, 72, 797-807.	0.0	8
99	Copper Ion-containing Ionic Liquids Provide Improved Endurance and Switching Voltage Distributions of Conducting-bridge Random Access Memory. <i>Chemistry Letters</i> , 2015, 44, 1578-1580.	0.7	7
100	Improved performance of a conducting-bridge random access memory using ionic liquids. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7215-7222.	2.7	7
101	From Chitin to CHILs: First Glucosamine based Ionic Liquids. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 2092-2094.	1.3	7
102	Synthesis of cyclic 1,4-oligo-N-acetylglucosamine cyclokaosadorin™ via a one-pot electrochemical polyglycosylation-isomerization-cyclization process. <i>Chemical Communications</i> , 2022, 58, 7948-7951.	2.2	7
103	Significantly Improved Performance of a Conducting-bridge Random Access Memory (CB-RAM) Device Using Copper-containing Glyme Salt. <i>Chemistry Letters</i> , 2017, 46, 1832-1835.	0.7	6
104	Unique Photophysical Properties of 1,8-Naphthalimide Derivatives: Generation of Semi-stable Radical Anion Species by Photo-Induced Electron Transfer from a Carboxy Group. <i>ACS Omega</i> , 2021, 6, 13456-13465.	1.6	6
105	Chemistry of Tertiary Carbon Center in the Formation of Congested C <sup>∞</sup> O Ether Bonds. <i>Angewandte Chemie</i> , 2021, 133, 4375-4380.	1.6	6
106	Aqueous Photo-Dimerization Using 2-Pyridylsilyl Group as a Removable Hydrophilic Group. <i>Chemistry Letters</i> , 2004, 33, 596-597.	0.7	5
107	Kinetic and thermodynamic insights into the inhibitory mechanism of TMG-chitotriomycin on <i>Vibrio campbellii</i> GH20 exo-β <sup>2</sup> -N-acetylglucosaminidase. <i>Carbohydrate Research</i> , 2021, 499, 108201.	1.1	5
108	Memristors With Controllable Data Volatility by Loading Metal Ion-Added Ionic Liquids. <i>Frontiers in Nanotechnology</i> , 2021, 3, .	2.4	5





#	ARTICLE	IF	CITATIONS
127	Chemical and Enzymatic Synthesis and Production of Glycans. , 2019, , 65-86.		0
128	From Electrochemical Glycosylation to A Sugar Machine. Trends in Glycoscience and Glycotechnology, 2019, 31, SJ74-SJ75.	0.0	0