

Mark S Workentin

List of Publications by Year in descending order

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84
papers

2,137
citations

201674

27
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265206

42
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90
all docs

90
docs citations

90
times ranked

2414
citing authors

#	ARTICLE	IF	CITATIONS
1	Interrogating Near-Infrared Electrogenerated Chemiluminescence of Au ₂₅ (SC ₂ H ₄ Ph) ₁₈ ⁺ Clusters. <i>Journal of the American Chemical Society</i> , 2012, 134, 15205-15208.	13.7	136
2	Kinetics of the Reduction of Dialkyl Peroxides. New Insights into the Dynamics of Dissociative Electron Transfer. <i>Journal of the American Chemical Society</i> , 1999, 121, 7239-7248.	13.7	103
3	NIR electrochemiluminescence from Au ₂₅ ⁺ nanoclusters facilitated by highly oxidizing and reducing co-reactant radicals. <i>Chemical Science</i> , 2014, 5, 3814-3822.	7.4	101
4	Reduction of Di-tert-Butyl Peroxide: Evidence for Nonadiabatic Dissociative Electron Transfer. <i>Journal of the American Chemical Society</i> , 1995, 117, 2120-2121.	13.7	84
5	Elucidation of the Electron Transfer Reduction Mechanism of Anthracene Endoperoxides. <i>Journal of the American Chemical Society</i> , 2004, 126, 1688-1698.	13.7	82
6	Covalently Assembled Gold Nanoparticle-Carbon Nanotube Hybrids via a Photoinitiated Carbene Addition Reaction. <i>Chemistry of Materials</i> , 2011, 23, 1519-1525.	6.7	71
7	Light-Activated Covalent Formation of Gold Nanoparticle-Graphene and Gold Nanoparticle-Glass Composites. <i>Langmuir</i> , 2011, 27, 13261-13268.	3.5	68
8	Facile synthesis of gold nanoparticle (AuNP)-carbon nanotube (CNT) hybrids through an interfacial Michael addition reaction. <i>Chemical Communications</i> , 2013, 49, 2831.	4.1	58
9	First Determination of the Standard Potential for the Dissociative Reduction of the Antimalarial Agent Artemisinin. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4061-4063.	2.6	54
10	Anhydride Post-Synthetic Modification in a Hierarchical Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 4419-4428.	13.7	53
11	Dissociative Electron Transfer to Biologically Relevant Bicyclic Endoperoxides. Determination of Thermochemical Parameters. <i>Journal of the American Chemical Society</i> , 1998, 120, 2664-2665.	13.7	51
12	Evaluation of the Extent of Conjugation in Symmetrical and Asymmetrical Aryl-Substituted Acetophenone Azines Using Electrochemical Methods. <i>Journal of Organic Chemistry</i> , 2001, 66, 831-838.	3.2	51
13	A Retro-Diels-Alder Reaction to Uncover Maleimide-Modified Surfaces on Monolayer-Protected Nanoparticles for Reversible Covalent Assembly. <i>Organic Letters</i> , 2006, 8, 4993-4996.	4.6	49
14	Interfacial strain-promoted alkyne-azide cycloaddition (I-SPAAC) for the synthesis of nanomaterial hybrids. <i>Chemical Communications</i> , 2013, 49, 3982.	4.1	45
15	Golden Opportunity: A Clickable Azide-Functionalized [Au ₂₅ (SR) ₁₈] ⁺ Nanocluster Platform for Interfacial Surface Modifications. <i>Journal of the American Chemical Society</i> , 2019, 141, 11781-11785.	13.7	43
16	Kinetics of Dissociative Electron Transfer to Ascaridole and Dihydroascaridole Model Bicyclic Endoperoxides of Biological Relevance. <i>Chemistry - A European Journal</i> , 2001, 7, 4012-4020.	3.3	41
17	Thermodynamic and Kinetic Origins of Au ₂₅ ⁰ Nanocluster Electrochemiluminescence. <i>Chemistry - A European Journal</i> , 2014, 20, 15116-15121.	3.3	41
18	Chemical Modification of Monolayer-Protected Gold Nanoparticles Using Hyperbaric Conditions. <i>Journal of the American Chemical Society</i> , 2007, 129, 4904-4905.	13.7	35

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19	Norrish Type II Photochemical Reaction of an Aryl Ketone on a Monolayer-Protected Gold Nanocluster. Development of a Probe of Conformational Mobility. <i>Organic Letters</i> , 2000, 2, 3381-3384.	4.6	34
20	Kinetics and mechanism of the dissociative reduction of C _i -X and X _i -X bonds (X → O, S). <i>Advances in Physical Organic Chemistry</i> , 2001, 36, 85-166.	0.5	34
21	Tip-Enhanced Raman Spectroscopy of Self-Assembled Thiolated Monolayers on Flat Gold Nanoplates Using Gaussian-Transverse and Radially Polarized Excitations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15639-15646.	3.1	34
22	Trialkylphosphine-Stabilized Copper ^{II} -Phenyltelluroolate Complexes: From Small Molecules to Nanoclusters via Condensation Reactions. <i>Inorganic Chemistry</i> , 2001, 40, 4678-4685.	4.0	33
23	Improved Methodology for the Preparation of Water-Soluble Maleimide-Functionalized Small Gold Nanoparticles. <i>Langmuir</i> , 2012, 28, 12357-12363.	3.5	32
24	Versatile strained alkyne modified water-soluble AuNPs for interfacial strain promoted azide-alkyne cycloaddition (I-SPAAC). <i>Journal of Materials Chemistry B</i> , 2014, 2, 1764-1769.	5.8	32
25	Efficient Synthesis of Isoxazolidine-Tethered Monolayer-Protected Gold Nanoparticles (MPCNs) via 1,3-Dipolar Cycloadditions under High-Pressure Conditions. <i>Journal of Organic Chemistry</i> , 2008, 73, 1099-1105.	3.2	30
26	Diazirine-Modified Gold Nanoparticle: Template for Efficient Photoinduced Interfacial Carbene Insertion Reactions. <i>Langmuir</i> , 2010, 26, 14958-14964.	3.5	28
27	Facile synthesis of Au ₂₃ (SC(CH ₃) ₃) ₃ clusters. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3631-3638.	5.5	28
28	Electron Transfer to Sulfides and Disulfides: Intrinsic Barriers and Relationship between Heterogeneous and Homogeneous Electron Transfer Kinetics. <i>Chemistry - A European Journal</i> , 2007, 13, 7983-7995.	3.3	27
29	Shine & Click-Photoinduced Interfacial Unmasking of Strained Alkynes on Small Water-Soluble Gold Nanoparticles. <i>Chemistry - A European Journal</i> , 2017, 23, 1052-1059.	3.3	27
30	A Radical-Anion Chain Mechanism Initiated by Dissociative Electron Transfer to a Bicyclic Endoperoxide: Insight into the Fragmentation Chemistry of Neutral Biradicals and Distonic Radical Anions. <i>Chemistry - A European Journal</i> , 2008, 14, 1698-1709.	3.3	26
31	Near-infrared electrochemiluminescence from Au ₂₅ (SC ₂ H ₄ Ph) ₁₈ ⁺ clusters co-reacted with tri-n-propylamine. <i>RSC Advances</i> , 2014, 4, 29559-29562.	3.6	26
32	Insights on the Application of the Retro Michael-Type Addition on Maleimide-Functionalized Gold Nanoparticles in Biology and Nanomedicine. <i>Bioconjugate Chemistry</i> , 2016, 27, 586-593.	3.6	26
33	Maleimide-Modified Phosphonium Ionic Liquids: A Template Towards (Multi)Task-Specific Ionic Liquids. <i>Chemistry - A European Journal</i> , 2010, 16, 9068-9075.	3.3	23
34	Dual-Bioorthogonal Molecular Tool: Click-to-Release and Double-Click-Reactivity on Small Molecules and Material Surfaces. <i>Bioconjugate Chemistry</i> , 2019, 30, 1140-1149.	3.6	23
35	Kinetics of the photoinduced dissociative electron transfer reduction of the antimalarial endoperoxide, Artemisinin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 138, 29-34.	3.9	22
36	Expanding the scope of strained-alkyne chemistry: a protection-deprotection strategy via the formation of a dicobalt-hexacarbonyl complex. <i>Chemical Communications</i> , 2015, 51, 6647-6650.	4.1	22

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37	Electrochemical Reduction of G3-Factor Endoperoxide and Its Methyl Ether: Evidence for a Competition between Concerted and Stepwise Dissociative Electron Transfer. <i>Chemistry - A European Journal</i> , 2007, 13, 1174-1179.	3.3	20
38	The Syntheses and Electrochemical Studies of a Ferrocene Substituted Diiminopyridine Ligand and Its P, S, Se, and Te Complexes. <i>Inorganic Chemistry</i> , 2012, 51, 8425-8432.	4.0	20
39	Peptide-decorated gold nanoparticles via strain-promoted azide-alkyne cycloaddition and post assembly deprotection. <i>RSC Advances</i> , 2014, 4, 43087-43091.	3.6	20
40	Loading across the Periodic Table: Introducing 14 Different Metal Ions To Enhance Metal-Organic Framework Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30296-30305.	8.0	20
41	Model dialkyl peroxides of the Fenton mechanistic probe 2-methyl-1-phenyl-2-propyl hydroperoxide (MPPH): kinetic probes for dissociative electron transfer. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 3418.	2.8	19
42	Water-soluble gold nanoparticles (AuNP) functionalized with a gadolinium(III) chelate via Michael addition for use as a MRI contrast agent. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5628.	5.8	19
43	O-Neophyl-type 1,2-phenyl rearrangement initiated by electron transfer: development of kinetic probes of dissociative electron transfer. <i>Chemical Communications</i> , 1999, , 135-136.	4.1	18
44	Covalent diamond-gold nanojewel hybrids via photochemically generated carbenes. <i>Chemical Communications</i> , 2011, 47, 7788.	4.1	18
45	Aryl Ketone Photochemistry on Monolayer Protected Clusters: Study of the Norrish Type II Reaction as a Probe of Conformational Mobility and for Selective Surface Modification. <i>Langmuir</i> , 2001, 17, 7355-7363.	3.5	17
46	Michael Addition Reactions for the Modification of Gold Nanoparticles Facilitated by Hyperbaric Conditions. <i>Langmuir</i> , 2012, 28, 864-871.	3.5	17
47	A radical-anion chain mechanism following dissociative electron transfer reduction of the model prostaglandin endoperoxide, 1,4-diphenyl-2,3-dioxabicyclo[2.2.1]heptane. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3354.	2.8	16
48	Arresting the time-dependent H ₂ O ₂ mediated synthesis of gold nanoparticles for analytical detection and preparative chemistry. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4048.	5.8	16
49	Small gold nanoparticles for interfacial Staudinger-Bertozzi ligation. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 4605-4612.	2.8	16
50	Fluorogenic Gold Nanoparticle (AuNP) Substrate: A Model for the Controlled Release of Molecules from AuNP Nanocarriers via Interfacial Staudinger-Bertozzi Ligation. <i>Langmuir</i> , 2017, 33, 1908-1913.	3.5	16
51	Radical anion chain process initiated by a dissociative electron transfer to a monocyclic endoperoxide. <i>Chemical Communications</i> , 2003, , 1246-1247.	4.1	15
52	Efficient Homogeneous Radical-Anion Chain Reactions Initiated by Dissociative Electron Transfer to 3,3,6,6-tetraaryl-1,2-dioxanes. <i>Chemistry - A European Journal</i> , 2010, 16, 178-188.	3.3	14
53	The electrochemical reduction of 1,4-dichloroazoethanes: Reductive elimination of chloride to form aryl azines. <i>Electrochimica Acta</i> , 2010, 55, 5584-5591.	5.2	13
54	Dialkynylborane Complexes of Formazanate Ligands: Synthesis, Electronic Properties, and Reactivity. <i>Inorganic Chemistry</i> , 2019, 58, 834-843.	4.0	13

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55	Covalent modification of graphene and micro-diamond with redox active substrates via photogenerated carbenes. <i>Carbon</i> , 2015, 85, 159-167.	10.3	11
56	Highly Electron-Deficient Pyridinium-Nitrones for Rapid and Tunable Inverse-Electron-Demand Strain-Promoted Alkyne-Nitrone Cycloaddition. <i>Organic Letters</i> , 2019, 21, 5547-5551.	4.6	11
57	Reactive Intermediates on Metal Surfaces: A Ketene Monolayer on Single Crystal Platinum Generated by Photolysis of Pyridyl- λ -Diazoketones. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2144-2147.	13.8	10
58	Remarkable high-yielding chemical modification of gold nanoparticles using uncatalyzed click-type 1,3-dipolar cycloaddition chemistry and hyperbaric conditions. <i>Canadian Journal of Chemistry</i> , 2009, 87, 1708-1715.	1.1	9
59	Water-Soluble Maleimide-Modified Gold Nanoparticles (AuNPs) as a Platform for Cycloaddition Reactions. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5438-5447.	2.4	9
60	A nanoaggregate-on-mirror platform for molecular and biomolecular detection by surface-enhanced Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 609-618.	3.7	9
61	Nitrone-Modified Gold Nanoparticles: Synthesis, Characterization, and Their Potential as ^{18}F -Labeled Positron Emission Tomography Probes via I-SPANC. <i>ACS Omega</i> , 2019, 4, 19106-19115.	3.5	9
62	Controlling the Structure, Properties and Surface Reactivity of Clickable Azide-Functionalized Au ₂₅ (SR) ₁₈ Nanocluster Platforms Through Regioisomeric Ligand Modifications. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	9
63	λ -Dialko ketone self-assembled monolayer modified electrode: a proposed photoreactive template for electrode derivatisation. <i>Chemical Communications</i> , 1999, , 839-840.	4.1	8
64	Gold nanosponges (AuNS): a versatile nanostructure for surface-enhanced Raman spectroscopic detection of small molecules and biomolecules. <i>Analyst</i> , 2015, 140, 7278-7282.	3.5	7
65	NHC Ligated Group 11 Metal-Arylthiolates Containing an Azide Functionality Amenable to "Click" Reaction Chemistry. <i>Inorganic Chemistry</i> , 2018, 57, 11184-11192.	4.0	7
66	Investigation of Au SAMs Photoclick Derivatization by PM-IRRAS. <i>Langmuir</i> , 2020, 36, 1014-1022.	3.5	7
67	Photoactivated Nitrene Chemistry to Prepare Gold Nanoparticle Hybrids with Carbonaceous Materials. <i>ChemPhysChem</i> , 2012, 13, 3185-3193.	2.1	6
68	Bombesin-Functionalized water-soluble gold nanoparticles for targeting prostate cancer. <i>Journal of Interdisciplinary Nanomedicine</i> , 2017, 2, 174-187.	3.6	6
69	Regioselective S—O vs. C—O bond cleavage in sulfenate ester radical anions. <i>Canadian Journal of Chemistry</i> , 2005, 83, 1473-1482.	1.1	5
70	Dissociative Electron Transfer to Diphenyl-Substituted Bicyclic Endoperoxides: The Effect of Molecular Structure on the Reactivity of Distonic Radical Anions and Determination of Thermochemical Parameters. <i>Molecules</i> , 2014, 19, 11999-12010.	3.8	5
71	High-resolution Raman imaging of bundles of single-walled carbon nanotubes by tip-enhanced Raman spectroscopy. <i>Canadian Journal of Chemistry</i> , 2015, 93, 51-59.	1.1	5
72	Chemoselective photochemical surface reaction " Ketene versus carbene reactivity from the photolysis of saturated monolayers of pyridyl diazoesters on single-crystal Pt. <i>Canadian Journal of Chemistry</i> , 2011, 89, 117-121.	1.1	4

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73	7 Reaction mechanisms. Part (iv) Radical and radical ion reactions. Annual Reports on the Progress of Chemistry Section B, 2001, 97, 345-392.	0.9	3
74	Interfacial ketene via the photo-Wolff rearrangement for the modification of monolayer protected gold nanoparticles. Journal of Physical Organic Chemistry, 2013, 26, 601-607.	1.9	3
75	Photolysis and Thermolysis of Pyridyl Carbonyl Azide Monolayers on Single-Crystal Platinum. Photochemistry and Photobiology, 2013, 89, 1020-1028.	2.5	3
76	6 Reaction mechanisms : Part (iii) Radical and radical ion reactions. Annual Reports on the Progress of Chemistry Section B, 2002, 98, 317-357.	0.9	2
77	Synthesis of small water-soluble diazine-functionalized gold nanoparticles and their photochemical modification. Canadian Journal of Chemistry, 2015, 93, 98-105.	1.1	2
78	ZnII and CdII Ferrocenechalcogenolate Complexes. European Journal of Inorganic Chemistry, 2017, 2017, 372-377.	2.0	2
79	9 Reaction mechanisms. Annual Reports on the Progress of Chemistry Section B, 2000, 96, 399-443.	0.9	1
80	An Azide-Functionalized Nitronyl Nitroxide Radical: Synthesis, Characterization and Staudinger-Bertozzi Ligation Reactivity. Synlett, 2016, 27, 304-308.	1.8	1
81	Kinetics of the photoinduced dissociative reduction of the model alkyl peroxides di-tert-butyl peroxide and ascaridole. Mediterranean Journal of Chemistry, 2012, 1, 303-315.	0.7	1
82	Frontispiece: "Shine & Click" Photo-Induced Interfacial Unmasking of Strained Alkynes on Small Water-Soluble Gold Nanoparticles. Chemistry - A European Journal, 2017, 23, .	3.3	0
83	Strained alkyne polymers capable of SPAAC <i>via</i> ring-opening metathesis polymerization. Polymer Chemistry, 2021, 12, 5542-5547.	3.9	0
84	Controlling the Structure, Properties and Surface Reactivity of Clickable Azide-Functionalized Au ₂₅ (SR) ₁₈ Nanocluster Platforms Through Regioisomeric Ligand Modifications. Angewandte Chemie, 0, , .	2.0	0