Scott A Trammell

List of Publications by Year
in descending order

84	3,527	186265 28	133252 59
papers	citations	h-index	g-index

85	85	85	4642
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum-dot/dopamine bioconjugates function as redox coupled assemblies for in vitro and intracellular pH sensing. Nature Materials, 2010, 9, 676-684.	27.5	433
2	Integration of Photosynthetic Protein Molecular Complexes in Solid-State Electronic Devices. Nano Letters, 2004, 4, 1079-1083.	9.1	354
3	Reversible Modulation of Quantum Dot Photoluminescence Using a Protein- Bound Photochromic Fluorescence Resonance Energy Transfer Acceptor. Journal of the American Chemical Society, 2004, 126, 30-31.	13.7	253
4	Extracellular DNA Promotes Efficient Extracellular Electron Transfer by Pyocyanin in Pseudomonas aeruginosa Biofilms. Cell, 2020, 182, 919-932.e19.	28.9	166
5	Ru2(ap)4(Ïƒ-oligo(phenyleneethynyl)) Molecular Wires:Â Synthesis and Electronic Characterization. Journal of the American Chemical Society, 2005, 127, 10010-10011.	13.7	151
6	Design of Bioelectronic Interfaces by Exploiting Hinge-Bending Motions in Proteins. Science, 2001, 293, 1641-1644.	12.6	139
7	Orientated binding of photosynthetic reaction centers on gold using Niî—¸NTA self-assembled monolayers. Biosensors and Bioelectronics, 2004, 19, 1649-1655.	10.1	122
8	Conductive Wiring of Immobilized Photosynthetic Reaction Center to Electrode by Cytochromec. Journal of the American Chemical Society, 2006, 128, 12044-12045.	13.7	120
9	Diffusional Mediation of Surface Electron Transfer on TiO2. Journal of Physical Chemistry B, 1999, 103, 104-107.	2.6	117
10	Interactions between Redox Complexes and Semiconductor Quantum Dots Coupled via a Peptide Bridge. Journal of the American Chemical Society, 2008, 130, 16745-16756.	13.7	115
11	Printed Graphene Electrochemical Biosensors Fabricated by Inkjet Maskless Lithography for Rapid and Sensitive Detection of Organophosphates. ACS Applied Materials & Interfaces, 2018, 10, 11125-11134.	8.0	112
12	Effect of protein orientation on electron transfer between photosynthetic reaction centers and carbon electrodes. Biosensors and Bioelectronics, 2006, 21, 1023-1028.	10.1	83
13	Probing Â-coupling in molecular junctions. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8821-8825.	7.1	82
14	Sensitization of TiO2 by Phosphonate-Derivatized Proline Assemblies. Inorganic Chemistry, 1999, 38, 3665-3669.	4.0	76
15	Mechanisms of Surface Electron Transfer. Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 1998, 120, 13248-13249.	13.7	72
16	Multiplex Charge-Transfer Interactions between Quantum Dots and Peptide-Bridged Ruthenium Complexes. Analytical Chemistry, 2009, 81, 4831-4839.	6.5	70
17	Nanoporous Organosilicas as Preconcentration Materials for the Electrochemical Detection of Trinitrotoluene. Analytical Chemistry, 2008, 80, 4627-4633.	6.5	67
18	Electrochemically Controlled Conductance Switching in a Single Molecule: Quinone-Modified Oligo(phenylene vinylene). ACS Nano, 2008, 2, 1289-1295.	14.6	60

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19	Complex FÃ¶rster Energy Transfer Interactions between Semiconductor Quantum Dots and a Redox-Active Osmium Assembly. ACS Nano, 2012, 6, 5330-5347.	14.6	55
20	Effects of Distance and Driving Force on Photoinduced Electron Transfer between Photosynthetic Reaction Centers and Gold Electrodes. Journal of Physical Chemistry C, 2007, 111, 17122-17130.	3.1	49
21	Increasing Efficiency of Photoelectronic Conversion by Encapsulation of Photosynthetic Reaction Center Proteins in Arrayed Carbon Nanotube Electrode. Langmuir, 2008, 24, 8871-8876.	3.5	47
22	Coordination Chemistry and Photoreactivity of the Dinitramide Ion. Inorganic Chemistry, 1996, 35, 1421-1422.	4.0	44
23	Rapid Proton-coupled Electron-transfer of Hydroquinone through Phenylenevinylene Bridges. Langmuir, 2007, 23, 942-948.	3.5	41
24	Heterogeneous electron transfer of quinoneâ€“hydroquinone in alkaline solutions at gold electrode surfaces: Comparison of saturated and unsaturated bridges. Journal of Electroanalytical Chemistry, 2007, 606, 33-38.	3.8	39
25	Molecular Energy Transfer across Oxide Surfaces. Journal of Physical Chemistry B, 2001, 105, 8895-8904.	2.6	32
26	Machine Learning Techniques for Chemical Identification Using Cyclic Square Wave Voltammetry. Sensors, 2019, 19, 2392.	3.8	31
27	Surface Reactivity of the Quinone/Hydroquinone Redox Center Tethered to Gold: Comparison of Delocalized and Saturated Bridges. Journal of the American Chemical Society, 2008, 130, 5579-5585.	13.7	29
28	Tunable Subnanometer Gap Plasmonic Metasurfaces. ACS Photonics, 2018, 5, 1012-1018.	6.6	28
29	Synthesis and Characterization of a Ruthenium(II)-Based Redox Conjugate for Reagentless Biosensing. Bioconjugate Chemistry, 2001, 12, 643-647.	3.6	26
30	Synthesis and electrochemistry of self-assembled monolayers containing quinone derivatives with varying electronic conjugation. Journal of Electroanalytical Chemistry, 2009, 628, 125-133.	3.8	26
31	Electrochemical detection of TNT with in-line pre-concentration using imprinted diethylbenzene-bridged periodic mesoporous organosilicas. Sensors and Actuators B: Chemical, 2011, 155, 737-744.	7.8	26
32	Paper-Based Electrochemical Detection of Chlorate. Sensors, 2018, 18, 328.	3.8	24
33	Fluorescence-based Sensing of 2,4,6-Trinitrotoluene (TNT) Using a Multi-channeled Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock	3.8	22
34	Protonâ€“coupled electron transfer in self-assembled monolayers containing quinone compounds with different bridging groups of varying electronic conjugation. Journal of Electroanalytical Chemistry, 2009, 632, 127-132.	3.8	21
35	Photochemistry of a Structurally Uncomplicated Phenylcarbyne Complex. Inorganic Chemistry, 1995, 34, 2791-2792.	4.0	20
36	Electrochemical and ligand binding studies of a de novo heme protein. Biophysical Chemistry, 2006, 123, 102-112.	2.8	20

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37	A Simple and Inexpensive Electrochemical Assay for the Identification of Nitrogen Containing Explosives in the Field. Sensors, 2017, 17, 1769.	3.8	20
38	Integrating Paper Chromatography with Electrochemical Detection for the Trace Analysis of TNT in Soil. Sensors, 2015, 15, 17048-17056.	3.8	18
39	Plasma-Modified, Epitaxial Fabricated Graphene on SiC for the Electrochemical Detection of TNT. Sensors, 2016, 16, 1281.	3.8	17
40	Linear and nonlinear optical characterization of self-assembled, large-area gold nanosphere metasurfaces with sub-nanometer gaps. Optics Express, 2016, 24, 27360.	3.4	16
41	A New Electron-Transfer Donor for Photoinduced Electron Transfer in Polypyridyl Molecular Assemblies. Inorganic Chemistry, 1999, 38, 1193-1198.	4.0	15
42	Perylene-diimide-based n-type semiconductors with enhanced air and temperature stable photoconductor and transistor properties. Dyes and Pigments, 2020, 174, 108014.	3.7	15
43	A reagentless electrochemical biosensor based on a protein scaffoldElectronic supplementary information (ESI) available: details regarding protein engineering and purification. See http://www.rsc.org/suppdata/cc/b2/b209452e/. Chemical Communications, 2003, , 338-339.	4.1	14
44	Accelerating the initial rate of hydrolysis of methyl parathion with laser excitation using monolayer protected 10 nm Au nanoparticles capped with a Cu(bpy) catalyst. Chemical Communications, 2012, 48, 4121.	4.1	14
45	Probing the Quenching of Quantum Dot Photoluminescence by Peptide-Labeled Ruthenium(II) Complexes. Journal of Physical Chemistry C, 2014, 118, 9239-9250.	3.1	14
46	A model recognition switch. Electrochemical control and transduction of imidazole binding by electrode-immobilized microperoxidase-11. Chemical Communications, 2002, , 416-417.	4.1	13
47	Electrochemical Detection of 2,4,6-Trinitrotoluene Using Interdigitated Array Electrodes. Analytical Letters, 2008, 41, 2634-2645.	1.8	13
48	Kinetic analysis of the hydrolysis of methyl parathion using citrate-stabilized 10Ânm gold nanoparticles. Chemosphere, 2016, 144, 1916-1919.	8.2	13
49	Synthesis of 3,5-bis(phosphonomethyl)benzoic acid and its application as a metal oxide surface bivalent anchor. Tetrahedron, 1999, 55, 2835-2846.	1.9	12
50	Photocurrents from the Direct Irradiation of a Donorâ€“Acceptor Complex Contained in a Thin Film on Indium Tin Oxide. Journal of Physical Chemistry C, 2011, 115, 13446-13461.	3.1	12
51	Coreâ€Shell Ag@TiO₂ Nanocomposites for Lowâ€Power Blue Laser Enhanced Copper(I) Catalyzed Ullmann Coupling. ChemistrySelect, 2017, 2, 769-773.	1.5	12
52	Statistical evaluation of an electrochemical probe for the detection of chlorate. Sensors and Actuators B: Chemical, 2017, 239, 951-961.	7.8	12
53	Selective DNA-Mediated Assembly of Gold Nanoparticles on Electroded Substrates. Langmuir, 2008, 24, 10245-10252.	3.5	9
54	Generation of fluorescent silver nanoscale particles in reverse micelles using gamma irradiation. Chemical Communications, 2012, 48, 10657.	4.1	9

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55	Non-photochemical catalytic hydrolysis of methyl parathion using coreâ€“shell Ag@TiO₂ nanoparticles. RSC Advances, 2018, 8, 42346-42352.	3.6	9
56	Surface plasmon resonance promotion of homogeneous catalysis using a gold nanoparticle platform. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	8
57	Simplified Avidinâ€“Biotin Mediated Antibody Attachment for a Surface Plasmon Resonance Biosensor. Sensor Letters, 2005, 3, 151-156.	0.4	8
58	Sensitization of nanoporous TiO2 electrodes using the naturally occurring chromophores: stentorin and hypericin. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 140, 179-183.	3.9	7
59	Kinetics of Absorbed Chromophore Exchange on Metal Oxide Electrodes. Langmuir, 2003, 19, 6081-6087.	3.5	6
60	Observation of two discrete conductivity states in quinone-oligo(phenylene vinylene). Nanotechnology, 2010, 21, 085704.	2.6	6
61	Structural Reorganizations Control Intermolecular Conductance and Charge Trapping in Paraquatâ€Tetraphenylborate Inverse Photochemical Cell. Photochemistry and Photobiology, 2011, 87, 1024-1030.	2.5	6
62	Electronic effects on the reactivity of copper mono-bipyridine complexes. Inorganica Chimica Acta, 2012, 388, 168-174.	2.4	6
63	Electron Conduction across Electrode-Immobilized Neutravidin Bound with Biotin-Labeled Ruthenium Pentaamine. Journal of the American Chemical Society, 2004, 126, 6540-6541.	13.7	5
64	Molecular conductance switching via controlled alteration of electron delocalization: Quinone-modified oligo(phenylenevinylene). Journal of Vacuum Science & Technology B, 2009, 27, 817.	1.3	5
65	On the Role of Oxygen in the Formation of Electron Transmission Channels in Oligo(Phenylene) Tj ETQq1 1 0.784314 rgBT /Overlock	3.1	5
66	Square Wave Voltammetry of TNT at Gold Electrodes Modified with Self-Assembled Monolayers Containing Aromatic Structures. PLoS ONE, 2014, 9, e115966.	2.5	5
67	Photo-enhanced hydrolysis of bis(4-nitrophenyl) phosphate using Cu(<scp>ii</scp>) bipyridine-capped plasmonic nanoparticles. RSC Advances, 2016, 6, 41618-41621.	3.6	4
68	Multilayer Epitaxial Graphene on Silicon Carbide: A Stable Working Electrode for Seawater Samples Spiked with Environmental Contaminants. Sensors, 2020, 20, 4006.	3.8	4
69	A comparative study of electrochemically and fluorometrically addressed molecular reporter groups: effects of protein microenvironment. Biosensors and Bioelectronics, 2003, 19, 373-382.	10.1	3
70	Attaching high charge density metal ions to surfaces and biomolecules. Reaction chemistry of hypodentate cobalt diamine complexes. Dalton Transactions, 2013, 42, 15617.	3.3	3
71	One-step synthesis of a new photoelectron-accepting, n-dopable oligo(pyrazole). Synthetic Metals, 2015, 204, 32-38.	3.9	3
72	New bio-inorganic photo-electronic devices based on photosynthetic proteins. , 2006, 6370, 101.		2

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73	Bio-inspired photo-electronic material based on photosynthetic proteins. , 2009, , .		2
74	Biosensor UUV payload for underwater detection. Proceedings of SPIE, 2010, , .	0.8	2
75	Modulation of quantum dot photoemission based on fluorescence resonance energy transfer to a photochromic dye acceptor. , 2004, , .		1
76	Directional photoinduced electron transfer in paraquat silicate thin films containing entrapped ruthenium(ii)-tris(bathophenanthroline-disulfonate). Chemical Communications, 2011, 47, 11348.	4.1	1
77	Synthesis of a 2,2'-Bipyridyl Functionalized Oligovinylene-Phenylene Using Heck and Horner-Wadsworth-Emmons Reactions and X-ray Crystal Structure of E-(4-(4-Bromostyryl)phenyl)(methyl)sulfane. Molecules, 2012, 17, 5724-5732.	3.8	1
78	A luminescent 2,2â€²-bipyridyl tricarbonyl rhenium(I) complex containing a non-bridging dicyanamide ligand. Inorganic Chemistry Communication, 2017, 83, 55-58.	3.9	1
79	Linear and nonlinear optical characterization of self-assembled, large-area gold nanosphere metasurfaces with sub-nanometer gaps: errata. Optics Express, 2018, 26, 9614.	3.4	1
80	Light tunable plasmonic metasurfaces. Optics Express, 2020, 28, 22891.	3.4	1
81	New bio-inorganic photo-electronic devices based on photosynthetic proteins. Proceedings of SPIE, 2007, , .	0.8	0
82	Using metal complex-labeled peptides for charge transfer-based biosensing with semiconductor quantum dots. Proceedings of SPIE, 2009, , .	0.8	0
83	Generation of fluorescent silver nanoclusters in reverse micelles using gamma irradiation: low vs. high dosages and spectral evolution with time. Applied Nanoscience (Switzerland), 2015, 5, 411-418.	3.1	0
84	Crystal structure ofcatena-poly[[chlorido(4,4â€²-dimethyl-2,2â€²-bipyridine-Îº2N,Nâ€²)copper(II)]-Î¼-chlorido]. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 624-627.	0.5	0