John S Fossey

List of Publications by Year
in descending order

127 papers	8,065 citations	41258 49 h-index	49773 87 g-index
176 all docs	176 docs citations	176 times ranked	8949 citing authors

#	Article	IF	Citations
1	Catalytic Enantioselective Formation of Câ^'C Bonds by Addition to Imines and Hydrazones: A Ten-Year Update. Chemical Reviews, 2011, 111, 2626-2704.	23.0	855
2	Exploiting the Reversible Covalent Bonding of Boronic Acids: Recognition, Sensing, and Assembly. Accounts of Chemical Research, 2013, 46, 312-326.	7.6	559
3	Selective sensing of saccharides using simple boronic acids and their aggregates. Chemical Society Reviews, 2013, 42, 8032.	18.7	507
4	Boronic acid building blocks: tools for self assembly. Chemical Communications, 2011, 47, 1124-1150.	2.2	466
5	Boronic acid building blocks: tools for sensing and separation. Chemical Communications, 2011, 47, 1106.	2.2	361
6	A water-soluble boronate-based fluorescent probe for the selective detection of peroxynitrite and imaging in living cells. Chemical Science, 2014, 5, 3368.	3.7	205
7	Batch fabrication of disposable screen printed SERS arrays. Lab on A Chip, 2012, 12, 876-881.	3.1	188
8	Glucose Sensing via Aggregation and the Use of â€œKnock-Outâ€•Binding To Improve Selectivity. Journal of the American Chemical Society, 2013, 135, 1700-1703.	6.6	184
9	Direct Asymmetric Synthesis of Î²-Bis-Aryl-Î±-Amino Acid Esters via Enantioselective Copper-Catalyzed Addition of p-Quinone Methides. ACS Catalysis, 2016, 6, 652-656.	5.5	159
10	Facile On-Site Detection of Substituted Aromatic Pollutants in Water Using Thin Layer Chromatography Combined with Surface-Enhanced Raman Spectroscopy. Environmental Science & Technology, 2011, 45, 4046-4052.	4.6	155
11	Boronic Acidâ€Based Carbohydrate Sensing. Chemistry - an Asian Journal, 2015, 10, 1836-1848.	1.7	115
12	Portable Surface-Enhanced Raman Scattering Sensor for Rapid Detection of Aniline and Phenol Derivatives by On-Site Electrostatic Preconcentration. Analytical Chemistry, 2010, 82, 9299-9305.	3.2	105
13	A Highly Selective Ferrocene-Based Planar Chiral PIP (Fc-PIP) Acyl Transfer Catalyst for the Kinetic Resolution of Alcohols. Journal of the American Chemical Society, 2010, 132, 17041-17044.	6.6	98
14	Recent advances in the use of chiral metal complexes with achiral ligands for application in asymmetric catalysis. Catalysis Science and Technology, 2015, 5, 3441-3451.	2.1	98
15	Boronic acids for fluorescence imaging of carbohydrates. Chemical Communications, 2016, 52, 3456-3469.	2.2	95
16	â€œClick-fluorsâ€•â€‰ Modular Fluorescent Saccharide Sensors Based on a 1,2,3-Triazole Ring. Journal of Organic Chemistry, 2008, 73, 2871-2874.	1.7	92
17	Simple protocols for NMR analysis of the enantiomeric purity of chiral diols. Nature Protocols, 2008, 3, 215-219.	5.5	90
18	Multiple depositions of Ag nanoparticles on chemically modified agarose films for surface-enhanced Raman spectroscopy. Nanoscale, 2012, 4, 137-142.	2.8	87

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19	Simple protocols for NMR analysis of the enantiomeric purity of chiral primary amines. Nature Protocols, 2008, 3, 210-214.	5.5	85
20	Reaction-based Indicator displacement Assay (RIA) for the selective colorimetric and fluorometric detection of peroxynitrite. Chemical Science, 2015, 6, 2963-2967.	3.7	84
21	Synthesis of 2,6-Bis(2-oxazolinyl)phenylplatinum(II) NCN Pincer Complexes by Direct Cyclometalation. Catalysts for Carbonâ^'Carbon Bond Formation. Organometallics, 2004, 23, 367-373.	1.1	83
22	Molecular Boronic Acid-Based Saccharide Sensors. ACS Sensors, 2021, 6, 1508-1528.	4.0	83
23	Asymmetric Copper-Catalyzed Azideâ€"Alkyne Cycloadditions. ACS Catalysis, 2016, 6, 3629-3636.	5.5	81
24	Dye displacement assay for saccharide detection with boronate hydrogels. Chemical Communications, 2009, , 532-534.	2.2	80
25	A simple visual sensor with the potential for determining the concentration of fluoride in water at environmentally significant levels. Chemical Communications, 2013, 49, 478-480.	2.2	80
26	Cyclic electroplating and stripping of silver on Au@SiO2 core/shell nanoparticles for sensitive and recyclable substrate of surface-enhanced Raman scattering. Journal of Materials Chemistry, 2010, 20, 3688.	6.7	79
27	Selective and Sensitive Detection of Intracellular O₂^{â€¢â€“} Using Au NPs/Cytochrome c as SERS Nanosensors. Analytical Chemistry, 2013, 85, 9549-9555.	3.2	71
28	A bis-boronic acid modified electrode for the sensitive and selective determination of glucose concentrations. Analyst, The, 2013, 138, 7146.	1.7	70
29	Nitrogen cationâ€"Ï€ interactions in asymmetric organocatalytic synthesis. Organic and Biomolecular Chemistry, 2011, 9, 7275.	1.5	69
30	An exoâ€•and Enantioselective 1,3â€Dipolar Cycloaddition of Azomethine Ylides with Alkylidene Malonates Catalyzed by a N,Oâ€Ligand/Cu(OAc)₂â€Derived Chiral Complex. Angewandte Chemie - International Edition, 2011, 50, 4897-4900.	7.2	69
31	The copper-catalyzed asymmetric construction of a dispiropyrrolidine skeleton via 1,3-dipolar cycloaddition of azomethine ylides to Î±-alkylidene succinimides. Chemical Communications, 2015, 51, 9212-9215.	2.2	69
32	DDQ-Mediated Oxidative Coupling: An Approach to 2,3-Dicyanofuran (Thiophene). Journal of Organic Chemistry, 2014, 79, 1156-1165.	1.7	65
33	A Direct Route to Platinum NCN-Pincer Complexes Derived from 1,3-Bis(imino)benzenes and an Investigation into Their Activity as Catalysts for Carbonâ^'Carbon Bond Formation. Organometallics, 2002, 21, 5259-5264.	1.1	62
34	A pyridinium cationâ€"Ï€ interaction sensor for the fluorescent detection of alkyl halides. Chemical Communications, 2011, 47, 253-255.	2.2	62
35	Synthesis of fused N-heterocycles via tandem Câ€"H activation. Chemical Communications, 2012, 48, 9601.	2.2	62
36	Analysis of protein glycation using phenylboronate acrylamide gel electrophoresis. Proteomics, 2010, 10, 48-58.	1.3	61

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37	The Development of Boronic Acids as Sensors and Separation Tools. Chemical Record, 2012, 12, 464-478.	2.9	61
38	Assembly of N-hexadecyl-pyridinium-4-boronic acid hexafluorophosphate monolayer films with catechol sensing selectivity. Journal of Materials Chemistry, 2010, 20, 8305.	6.7	60
39	Fabrication of bimetallic microfluidic surface-enhanced Raman scattering sensors on paper by screen printing. Analytica Chimica Acta, 2013, 792, 86-92.	2.6	58
40	Humic acids-based one-step fabrication of SERS substrates for detection of polycyclic aromatic hydrocarbons. Analyst, The, 2013, 138, 1523.	1.7	58
41	Selective glycoprotein detection through covalent templating and allosteric click-imprinting. Chemical Science, 2015, 6, 5114-5119.	3.7	58
42	Copper-catalysed addition of Î±-alkyl azaarenes to ethyl glyoxylate via direct C(sp3)â€“H activation. RSC Advances, 2012, 2, 5968.	1.7	56
43	A Computational Investigation of the Nitrogenâ‹¯Boron Interaction in o-(N,N-Dialkylaminomethyl)arylboronate Systems. Journal of Physical Chemistry A, 2010, 114, 12531-12539.	1.1	54
44	Copper-Catalyzed Synthesis of Purine-Fused Polycyclics. Organic Letters, 2012, 14, 4494-4497.	2.4	54
45	Synthesis of azetidines and pyrrolidines via iodocyclisation of homoallyl amines and exploration of activity in a zebrafish embryo assay. Organic and Biomolecular Chemistry, 2013, 11, 5083.	1.5	53
46	â€œIntegratedâ€•and â€œinsulatedâ€•boronate-based fluorescent probes for the detection of hydrogen peroxide. Chemical Communications, 2013, 49, 8311.	2.2	53
47	Catalysis of aldehyde and imine silylcyanation by platinum and palladium NCN-pincer complexes. Tetrahedron Letters, 2003, 44, 8773-8776.	0.7	51
48	Glucose selective Surface Plasmon Resonance-based bis-boronic acid sensor. Analyst, The, 2013, 138, 7140.	1.7	51
49	New Ferrocenyloxazoline for the Preparation of Ferrocenes with Planar Chirality. Organometallics, 2000, 19, 3736-3739.	1.1	50
50	Diastereoselective Preparation of Azetidines and Pyrrolidines. Organic Letters, 2010, 12, 5044-5047.	2.4	50
51	Synthesis and evaluation of a boronate-tagged 1,8-naphthalimide probe for fluoride recognition. Organic and Biomolecular Chemistry, 2015, 13, 4143-4148.	1.5	50
52	Synthesis and X-ray crystal structure analysis of the first nickel bisoxazoline pincer complex. Journal of Organometallic Chemistry, 2004, 689, 3056-3059.	0.8	49
53	Dynamic covalent self-assembled macrocycles prepared from 2-formyl-aryl-boronic acids and 1,2-amino alcohols. New Journal of Chemistry, 2009, 33, 181-185.	1.4	48
54	Kinetic resolution of alkyne-substituted quaternary oxindoles via copper catalysed azideâ€“alkyne cycloadditions. Chemical Communications, 2015, 51, 17217-17220.	2.2	45

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55	Boronate affinity saccharide electrophoresis: A novel carbohydrate analysis tool. Electrophoresis, 2008, 29, 4185-4191.	1.3	44
56	A C2-symmetric nickel diamine complex as an asymmetric catalyst for enecarbamate additions to butane-2,3-dione. Organic and Biomolecular Chemistry, 2005, 3, 2910.	1.5	43
57	Real-Time Plasmonic Monitoring of Single Gold Amalgam Nanoalloy Electrochemical Formation and Stripping. ACS Applied Materials & Interfaces, 2016, 8, 8305-8314.	4.0	42
58	A cell cycle-coordinated Polymerase II transcription compartment encompasses gene expression before global genome activation. Nature Communications, 2019, 10, 691.	5.8	42
59	Intramolecular cationâ€“Ï€ interactions control the conformation of nonrestricted (phenylalkyl)pyridines. Chemical Communications, 2008, , 1082.	2.2	41
60	Diols and anions can control the formation of an exciplex between a pyridinium boronic acid with an aryl group connected via a propylene linker. Chemical Communications, 2010, 46, 8180.	2.2	41
61	Iron-catalysed tandem cross-dehydrogenative coupling (CDC) of terminal allylic C(sp3) to C(sp2) of styrene and benzoannulation in the synthesis of polysubstituted naphthalenes. Chemical Communications, 2012, 48, 2674.	2.2	40
62	Solidâ€State Structures and Solution Analyses of a Phenylpropylpyridine Nâ€Oxide and an Nâ€Methyl Phenylpropylpyridine. Chemistry - an Asian Journal, 2009, 4, 194-198.	1.7	39
63	Flexibility and Cross-Sectional Structure of an Anionic Dual-Surfactant Wormlike Micelle Explored with Small-Angle X-ray Scattering Coupled with Contrast Variation Technique. Journal of Physical Chemistry B, 2009, 113, 10222-10229.	1.2	39
64	Synthesis and crystal structures of the first C2-symmetric bis-aldimine NCNâ€“pincer complexes of platinum and palladium. Journal of Organometallic Chemistry, 2007, 692, 4843-4848.	0.8	37
65	A Ferrocenyl-DHIPOH/Cu(OAc)₂ Complex for Diastereo- and Enantioselective Catalysis of the 1,4-Addition of Glycine Derivatives to Alkylidene Malonates. Organic Letters, 2011, 13, 6010-6013.	2.4	35
66	Glucose selective bis-boronic acid click-fluor. Chemical Communications, 2017, 53, 2218-2221.	2.2	35
67	Asymmetric Synthesis of cis-3,4-Dihydrocoumarins via [4 + 2] Cycloadditions Catalyzed by Amidine Derivatives. Journal of Organic Chemistry, 2017, 82, 5424-5432.	1.7	34
68	Phosphino-Triazole Ligands for Palladium-Catalyzed Cross-Coupling. Organometallics, 2018, 37, 4224-4241.	1.1	32
69	Heterochiral Triangulo Nickel Complex as Evidence of a Large Positive Nonlinear Effect in Catalysis. Inorganic Chemistry, 2008, 47, 781-783.	1.9	30
70	Boronic acid-facilitated Î±-hydroxy-carboxylate anion transfer at liquid/liquid electrode systems: the EICrev mechanism. Journal of Solid State Electrochemistry, 2009, 13, 1475-1482.	1.2	28
71	Optically pure bulky (hetero)arylalkyl carbinols via kinetic resolution. Chemical Communications, 2011, 47, 10632.	2.2	28
72	Chiral N,Oâ€Ligand/[Cu(OAc)₂]â€Catalyzed Asymmetric Construction of 4â€Aminopyrrolidine Derivatives by 1,3â€Dipolar Cycloaddition of Azomethine Ylides with Î±â€Phthalimidoacrylates. Chemistry - A European Journal, 2015, 21, 10457-10465.	1.7	28

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73	The CASE 2014 symposium: Catalysis and sensing for our environment, Xiamen 7thâ€“9th November 2014. Organic Chemistry Frontiers, 2015, 2, 101-105.	2.3	28
74	A surface plasmon enhanced fluorescence sensor platform. New Journal of Chemistry, 2009, 33, 1466.	1.4	27
75	A boronic acid-based fluorescent hydrogel for monosaccharide detection. Frontiers of Chemical Science and Engineering, 2020, 14, 112-116.	2.3	27
76	Diol Appended Quenchers for Fluorescein Boronic Acid. Chemistry - an Asian Journal, 2010, 5, 581-588.	1.7	26
77	Novel N,O-Cu(OAc)2 complex catalysed diastereo- and enantioselective 1,4-addition of glycine derivatives to alkylidene malonates. Catalysis Science and Technology, 2011, 1, 100.	2.1	26
78	Polymerisation resistant synthesis of methacrylamido phenylboronic acids. Polymer, 2008, 49, 3362-3365.	1.8	25
79	Towards novel biolabels: synthesis of a tagged highly fluorescent Schiff-base aluminium complex. Tetrahedron Letters, 2002, 43, 5169-5171.	0.7	23
80	Cu(OTf)2-catalysed Ritter reaction: efficient synthesis of amides from nitriles and halohydrocarbons in water. RSC Advances, 2012, 2, 6161.	1.7	22
81	Behavior of Supramolecular Assemblies of Radiometal-Filled and Fluorescent Carbon Nanocapsules InÂVitro and InÂVivo. CheM, 2017, 3, 437-460.	5.8	22
82	â€œClick-fluorsâ€• triazole-linked saccharide sensors. Organic Chemistry Frontiers, 2016, 3, 918-928.	2.3	21
83	Biotinylated boronic acid fluorophore conjugates: Quencher elimination strategy for imaging and saccharide detection. RSC Advances, 2012, 2, 3274.	1.7	20
84	Catalysis and Sensing for our Environment (CASE2015) and the Supramolecular Chemistry Ireland Meeting (SCI 2015): Dublin and Maynooth, Ireland. 8thâ€“11th July. Supramolecular Chemistry, 2016, 28, 921-931.	1.5	20
85	Rapid Determination of Enantiomeric Excess via NMR Spectroscopy: A Research-Informed Experiment. Journal of Chemical Education, 2017, 94, 79-84.	1.1	20
86	Multimodal switching of a redox-active macrocycle. Nature Communications, 2019, 10, 1007.	5.8	20
87	The Bullâ€“James assembly as a chiral auxiliary and shift reagent in kinetic resolution of alkyne amines by the CuAAC reaction. Organic and Biomolecular Chemistry, 2016, 14, 10778-10782.	1.5	19
88	A straightforward and efficient synthetic access to biologically active marine sesterterpenoids, sesterstatins 4 and 5. Chemical Communications, 2011, 47, 2961.	2.2	18
89	Pyrene-anchored boronic acid receptors on carbon nanoparticle supports: fluxionality and pore effects. New Journal of Chemistry, 2013, 37, 1883.	1.4	18
90	Direct platination as a route to conformationally restricted enantiopure C2-symmetric bisoxazoline pincer complexes. Tetrahedron: Asymmetry, 2004, 15, 2067-2073.	1.8	15

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91	An ab initioand AIM investigation into the hydration of 2-thioxanthine. Chemistry Central Journal, 2010, 4, 6.	2.6	15
92	Colorimetric enantioselective recognition of chiral secondary alcohols via hydrogen bonding to a chiral metallocene containing chemosensor. Chemical Communications, 2013, 49, 8314.	2.2	15
93	Rigid and concave, 2,4-cis-substituted azetidine derivatives: A platform for asymmetric catalysis. Scientific Reports, 2018, 8, 6541.	1.6	15
94	Derivatisation of parthenolide to address chemoresistant chronic lymphocytic leukaemia. MedChemComm, 2019, 10, 1379-1390.	3.5	15
95	A theoretical exploration of unexpected amineâ‹¯Ï€ interactions. Physical Chemistry Chemical Physics, 2012, 14, 10747.	1.3	14
96	Base and solvent dependency of an oxidative retro-alkylation of secondary and tertiary benzylamines. RSC Advances, 2013, 3, 5370.	1.7	13
97	Bi-aryl rotation in phenyl-dihydroimidazoquinoline catalysts for kinetic resolution of arylalkyl carbinols. Catalysis Science and Technology, 2014, 4, 1909-1913.	2.1	13
98	Targeting the Ataxia Telangiectasia Mutated-null phenotype in chronic lymphocytic leukemia with pro-oxidants. Haematologica, 2015, 100, 1076-85.	1.7	13
99	A chiral ligand mediated aza-conjugate addition strategy for the enantioselective synthesis of Î²-amino esters that contain hydrogenolytically sensitive functionality. Tetrahedron, 2015, 71, 8838-8847.	1.0	13
100	Electronic communication of cells with a surface mediated by boronic acid saccharide interactions. Chemical Communications, 2015, 51, 17213-17216.	2.2	11
101	Balancing Bulkiness in Gold(I) Phosphinoâ€triazole Catalysis. European Journal of Organic Chemistry, 2019, 2019, 5540-5548.	1.2	11
102	Coetaneous catalytic kinetic resolution of alkynes and azides through asymmetric triazole formation. Scientific Reports, 2019, 9, 15086.	1.6	11
103	Synthesis of a Highly Hydrophobic Cationic Lipid and Structural and Thermodynamic Studies for Interaction with DNA. Bulletin of the Chemical Society of Japan, 2010, 83, 1010-1018.	2.0	10
104	Real-time plasmonic monitoring of electrocatalysis on single nanorods. Journal of Electroanalytical Chemistry, 2016, 781, 257-264.	1.9	10
105	Suzuki homo-coupling reaction based fluorescent sensors for monosaccharides. RSC Advances, 2014, 4, 35238.	1.7	9
106	Azetidines and their applications in asymmetric catalysis. Tetrahedron, 2021, 77, 131767.	1.0	9
107	Field-effect saccharide sensing using AlGaN/GaN heterostructures and boronic acid based chemical receptors. Sensors and Actuators B: Chemical, 2011, 160, 1078-1081.	4.0	8
108	Î³-Lactams and furan bispyrrolidines via iodine mediated cyclisation of homoallylamines. Organic Chemistry Frontiers, 2015, 2, 1445-1449.	2.3	8

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109	Insulin Delivery Using Dynamic Covalent Boronic Acid/Esterâ€Controlled Release. Advanced Therapeutics, 2021, 4, 2100118.	1.6	8
110	Nanomolecular singlet oxygen photosensitizers based on hemiquinonoid-resorcinarenes, the fuchsonarenes. Chemical Science, 2020, 11, 2614-2620.	3.7	7
111	Chiral pincer complexes and their application to asymmetric synthesis. , 2007, , 45-77.		6
112	An Intermolecular Double [2+2] Cyclodimerization of a Tetraalkyne. Angewandte Chemie - International Edition, 2007, 46, 2266-2268.	7.2	6
113	In situ surface-enhanced Raman scattering and X-ray photoelectron spectroscopic investigation of coenzyme Q₁₀on silver electrode. Physical Chemistry Chemical Physics, 2011, 13, 2259-2265.	1.3	6
114	Analysis of Protein Glycation Using Phenylboronate Acrylamide Gel Electrophoresis. Methods in Molecular Biology, 2012, 869, 93-109.	0.4	6
115	Aniline-containing derivatives of parthenolide: Synthesis and anti-chronic lymphocytic leukaemia activity. Tetrahedron, 2020, 76, 131631.	1.0	6
116	Ethylenation of aldehydes to 3-propanal, propanol and propanoic acid derivatives. Scientific Reports, 2017, 7, 1720.	1.6	5
117	Palladium and Platinum 2,4-cis-amino Azetidine and Related Complexes. Frontiers in Chemistry, 2018, 6, 211.	1.8	5
118	Boronic Acid Based Modular Fluorescent Saccharide Sensors. Reviews in Fluorescence, 2009, , 103-118.	0.5	5
119	Enantiomer stability of atropisomeric 1,5-disubstituted 1,2,3-triazoles. , 2022, 1, 100004.		5
120	Organometallic chemistry. Annual Reports on the Progress of Chemistry Section B, 2011, 107, 91.	0.8	4
121	Organometallic chemistry. Annual Reports on the Progress of Chemistry Section B, 2012, 108, 71.	0.8	4
122	Organometallic chemistry. Annual Reports on the Progress of Chemistry Section B, 2013, 109, 207.	0.8	2
123	From a Secluded Forest Location in Japan: The 13thTateshina Conference on Organic Chemistry. Chemistry - an Asian Journal, 2014, 9, 432-433.	1.7	1
124	Catalysis of Aldehyde and Imine Silylcyanation by Platinum and Palladium NCN-Pincer Complexes.. ChemInform, 2004, 35, no.	0.1	0
125	Synthesis of 2,6-Bis(2-oxazolinyl)phenylplatinum(II) NCN Pincer Complexes by Direct Cyclometalation. Catalysts for Carbonâ€"Carbon Bond Formation. ChemInform, 2004, 35, no.	0.1	0
126	A C2-Symmetric Nickel Diamine Complex as an Asymmetric Catalyst for Enecarbamate Additions to Butane-2,3-dione.. ChemInform, 2006, 37, no.	0.1	0

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127	Metals in Synthesis 2008 (MIS-08). Platinum Metals Review, 2009, 53, 86-90.	1.5	0