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	Enantiomer stability of atropisomeric 1,5-disubstituted 1,2,3-triazoles. , 2022, 1, 100004.		5
2	Azetidines and their applications in asymmetric catalysis. Tetrahedron, 2021, 77, 131767.	1.0	9
3	Molecular Boronic Acid-Based Saccharide Sensors. ACS Sensors, 2021, 6, 1508-1528.	4.0	83
4	Insulin Delivery Using Dynamic Covalent Boronic Acid/Esterâ€Controlled Release. Advanced Therapeutics, 2021, 4, 2100118.	1.6	8
5	A boronic acid-based fluorescent hydrogel for monosaccharide detection. Frontiers of Chemical Science and Engineering, 2020, 14, 112-116.	2.3	27
6	Aniline-containing derivatives of parthenolide: Synthesis and anti-chronic lymphocytic leukaemia activity. Tetrahedron, 2020, 76, 131631.	1.0	6
7	Nanomolecular singlet oxygen photosensitizers based on hemiquinonoid-resorcinarenes, the fuchsonarenes. Chemical Science, 2020, 11, 2614-2620.	3.7	7
8	Derivatisation of parthenolide to address chemoresistant chronic lymphocytic leukaemia. MedChemComm, 2019, 10, 1379-1390.	3.5	15
9	Balancing Bulkiness in Gold(I) Phosphinoâ€triazole Catalysis. European Journal of Organic Chemistry, 2019, 2019, 5540-5548.	1.2	11
10	Coetaneous catalytic kinetic resolution of alkynes and azides through asymmetric triazole formation. Scientific Reports, 2019, 9, 15086.	1.6	11
11	Multimodal switching of a redox-active macrocycle. Nature Communications, 2019, 10, 1007.	5.8	20
12	A cell cycle-coordinated Polymerase II transcription compartment encompasses gene expression before global genome activation. Nature Communications, 2019, 10, 691.	5.8	42
13	Rigid and concave, 2,4-cis-substituted azetidine derivatives: A platform for asymmetric catalysis. Scientific Reports, 2018, 8, 6541.	1.6	15
14	Phosphino-Triazole Ligands for Palladium-Catalyzed Cross-Coupling. Organometallics, 2018, 37, 4224-4241.	1.1	32
15	Palladium and Platinum 2,4-cis-amino Azetidine and Related Complexes. Frontiers in Chemistry, 2018, 6, 211.	1.8	5
16	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
17	Glucose selective bis-boronic acid click-fluor. Chemical Communications, 2017, 53, 2218-2221.	2.2	35
18	Behavior of Supramolecular Assemblies of Radiometal-Filled and Fluorescent Carbon Nanocapsules InÂVitro and InÂVivo. CheM, 2017, 3, 437-460.	5.8	22

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19	Ethylenation of aldehydes to 3-propanal, propanol and propanoic acid derivatives. Scientific Reports, 2017, 7, 1720.	1.6	5
20	Rapid Determination of Enantiomeric Excess via NMR Spectroscopy: A Research-Informed Experiment. Journal of Chemical Education, 2017, 94, 79-84.	1.1	20
21	Real-time plasmonic monitoring of electrocatalysis on single nanorods. Journal of Electroanalytical Chemistry, 2016, 781, 257-264.	1.9	10
22	Asymmetric Copper-Catalyzed Azideâ€“Alkyne Cycloadditions. ACS Catalysis, 2016, 6, 3629-3636.	5.5	81
23	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
24	â€œClick-fluorsâ€• triazole-linked saccharide sensors. Organic Chemistry Frontiers, 2016, 3, 918-928.	2.3	21
25	Real-Time Plasmonic Monitoring of Single Gold Amalgam Nanoalloy Electrochemical Formation and Stripping. ACS Applied Materials & Interfaces, 2016, 8, 8305-8314.	4.0	42
26	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
27	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
28	Boronic acids for fluorescence imaging of carbohydrates. Chemical Communications, 2016, 52, 3456-3469.	2.2	95
29	Targeting the Ataxia Telangiectasia Mutated-null phenotype in chronic lymphocytic leukemia with pro-oxidants. Haematologica, 2015, 100, 1076-85.	1.7	13
30	Boronic Acidâ€Based Carbohydrate Sensing. Chemistry - an Asian Journal, 2015, 10, 1836-1848.	1.7	115
31	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
32	Reaction-based Indicator displacement Assay (RIA) for the selective colorimetric and fluorometric detection of peroxynitrite. Chemical Science, 2015, 6, 2963-2967.	3.7	84
33	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
34	Selective glycoprotein detection through covalent templating and allosteric click-imprinting. Chemical Science, 2015, 6, 5114-5119.	3.7	58
35	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
36	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

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37	Electronic communication of cells with a surface mediated by boronic acid saccharide interactions. Chemical Communications, 2015, 51, 17213-17216.	2.2	11
38	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
39	Î³-Lactams and furan bispyrrolidines via iodine mediated cyclisation of homoallylamines. Organic Chemistry Frontiers, 2015, 2, 1445-1449.	2.3	8
40	Kinetic resolution of alkyne-substituted quaternary oxindoles via copper catalysed azideâ€“alkyne cycloadditions. Chemical Communications, 2015, 51, 17217-17220.	2.2	45
41	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
42	From a Secluded Forest Location in Japan: The 13thTateshina Conference on Organic Chemistry. Chemistry - an Asian Journal, 2014, 9, 432-433.	1.7	1
43	DDQ-Mediated Oxidative Coupling: An Approach to 2,3-Dicyanofuran (Thiophene). Journal of Organic Chemistry, 2014, 79, 1156-1165.	1.7	65
44	Bi-aryl rotation in phenyl-dihydroimidazoquinoline catalysts for kinetic resolution of arylalkyl carbinols. Catalysis Science and Technology, 2014, 4, 1909-1913.	2.1	13
45	Suzuki homo-coupling reaction based fluorescent sensors for monosaccharides. RSC Advances, 2014, 4, 35238.	1.7	9
46	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
47	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
48	Selective sensing of saccharides using simple boronic acids and their aggregates. Chemical Society Reviews, 2013, 42, 8032.	18.7	507
49	Colorimetric enantioselective recognition of chiral secondary alcohols via hydrogen bonding to a chiral metallocene containing chemosensor. Chemical Communications, 2013, 49, 8314.	2.2	15
50	Pyrene-anchored boronic acid receptors on carbon nanoparticle supports: fluxionality and pore effects. New Journal of Chemistry, 2013, 37, 1883.	1.4	18
51	Glucose selective Surface Plasmon Resonance-based bis-boronic acid sensor. Analyst, The, 2013, 138, 7140.	1.7	51
52	Organometallic chemistry. Annual Reports on the Progress of Chemistry Section B, 2013, 109, 207.	0.8	2
53	Fabrication of bimetallic microfluidic surface-enhanced Raman scattering sensors on paper by screen printing. Analytica Chimica Acta, 2013, 792, 86-92.	2.6	58
54	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

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55	Humic acids-based one-step fabrication of SERS substrates for detection of polycyclic aromatic hydrocarbons. Analyst, The, 2013, 138, 1523.	1.7	58
56	Base and solvent dependency of an oxidative retro-alkylation of secondary and tertiary benzylamines. RSC Advances, 2013, 3, 5370.	1.7	13
57	â€œIntegratedâ€•and â€œinsulatedâ€•boronate-based fluorescent probes for the detection of hydrogen peroxide. Chemical Communications, 2013, 49, 8311.	2.2	53
58	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
59	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
60	Exploiting the Reversible Covalent Bonding of Boronic Acids: Recognition, Sensing, and Assembly. Accounts of Chemical Research, 2013, 46, 312-326.	7.6	559
61	A bis-boronic acid modified electrode for the sensitive and selective determination of glucose concentrations. Analyst, The, 2013, 138, 7146.	1.7	70
62	Analysis of Protein Glycation Using Phenylboronate Acrylamide Gel Electrophoresis. Methods in Molecular Biology, 2012, 869, 93-109.	0.4	6
63	Multiple depositions of Ag nanoparticles on chemically modified agarose films for surface-enhanced Raman spectroscopy. Nanoscale, 2012, 4, 137-142.	2.8	87
64	Biotinylated boronic acid fluorophore conjugates: Quencher elimination strategy for imaging and saccharide detection. RSC Advances, 2012, 2, 3274.	1.7	20
65	Batch fabrication of disposable screen printed SERS arrays. Lab on A Chip, 2012, 12, 876-881.	3.1	188
66	Cu(OTf)2-catalysed Ritter reaction: efficient synthesis of amides from nitriles and halohydrocarbons in water. RSC Advances, 2012, 2, 6161.	1.7	22
67	Copper-Catalyzed Synthesis of Purine-Fused Polycyclics. Organic Letters, 2012, 14, 4494-4497.	2.4	54
68	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
69	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
70	Organometallic chemistry. Annual Reports on the Progress of Chemistry Section B, 2012, 108, 71.	0.8	4
71	The Development of Boronic Acids as Sensors and Separation Tools. Chemical Record, 2012, 12, 464-478.	2.9	61
72	Synthesis of fused N-heterocycles via tandem Câ€“H activation. Chemical Communications, 2012, 48, 9601.	2.2	62

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73	A theoretical exploration of unexpected amineâ‹¯Ï€ interactions. Physical Chemistry Chemical Physics, 2012, 14, 10747.	1.3	14
74	Organometallic chemistry. Annual Reports on the Progress of Chemistry Section B, 2011, 107, 91.	0.8	4
75	Optically pure bulky (hetero)arylalkyl carbinols via kinetic resolution. Chemical Communications, 2011, 47, 10632.	2.2	28
76	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
77	A straightforward and efficient synthetic access to biologically active marine sesterterpenoids, sesterstatins 4 and 5. Chemical Communications, 2011, 47, 2961.	2.2	18
78	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
79	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
80	Nitrogen cationâ€“Ï€ interactions in asymmetric organocatalytic synthesis. Organic and Biomolecular Chemistry, 2011, 9, 7275.	1.5	69
81	Catalytic Enantioselective Formation of Câˆ’C Bonds by Addition to Imines and Hydrazones: A Ten-Year Update. Chemical Reviews, 2011, 111, 2626-2704.	23.0	855
82	Boronic acid building blocks: tools for self assembly. Chemical Communications, 2011, 47, 1124-1150.	2.2	466
83	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
84	A pyridinium cationâ€“Ï€ interaction sensor for the fluorescent detection of alkyl halides. Chemical Communications, 2011, 47, 253-255.	2.2	62
85	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
86	Boronic acid building blocks: tools for sensing and separation. Chemical Communications, 2011, 47, 1106.	2.2	361
87	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
88	Diol Appended Quenchers for Fluorescein Boronic Acid. Chemistry - an Asian Journal, 2010, 5, 581-588.	1.7	26
89	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
90	An ab initioand AIM investigation into the hydration of 2-thioxanthine. Chemistry Central Journal, 2010, 4, 6.	2.6	15

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91	Analysis of protein glycation using phenylboronate acrylamide gel electrophoresis. Proteomics, 2010, 10, 48-58.	1.3	61
92	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
93	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
94	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
95	Diastereoselective Preparation of Azetidines and Pyrrolidines. Organic Letters, 2010, 12, 5044-5047.	2.4	50
96	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
97	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
98	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
99	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
100	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
101	Dye displacement assay for saccharide detection with boronate hydrogels. Chemical Communications, 2009, , 532-534.	2.2	80
102	A surface plasmon enhanced fluorescence sensor platform. New Journal of Chemistry, 2009, 33, 1466.	1.4	27
103	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
104	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
105	Metals in Synthesis 2008 (MIS-08). Platinum Metals Review, 2009, 53, 86-90.	1.5	0
106	Boronic Acid Based Modular Fluorescent Saccharide Sensors. Reviews in Fluorescence, 2009, , 103-118.	0.5	5
107	Polymerisation resistant synthesis of methacrylamido phenylboronic acids. Polymer, 2008, 49, 3362-3365.	1.8	25
108	Boronate affinity saccharide electrophoresis: A novel carbohydrate analysis tool. Electrophoresis, 2008, 29, 4185-4191.	1.3	44

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109	Heterochiral Triangulo Nickel Complex as Evidence of a Large Positive Nonlinear Effect in Catalysis. Inorganic Chemistry, 2008, 47, 781-783.	1.9	30
110	Simple protocols for NMR analysis of the enantiomeric purity of chiral diols. Nature Protocols, 2008, 3, 215-219.	5.5	90
111	Simple protocols for NMR analysis of the enantiomeric purity of chiral primary amines. Nature Protocols, 2008, 3, 210-214.	5.5	85
112	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
113	Intramolecular cationâ€“Ï€ interactions control the conformation of nonrestricted (phenylalkyl)pyridines. Chemical Communications, 2008, , 1082.	2.2	41
114	Chiral pincer complexes and their application to asymmetric synthesis. , 2007, , 45-77.		6
115	An Intermolecular Double [2+2] Cyclodimerization of a Tetraalkyne. Angewandte Chemie - International Edition, 2007, 46, 2266-2268.	7.2	6
116	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
117	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
118	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
119	Catalysis of Aldehyde and Imine Silylcyanation by Platinum and Palladium NCN-Pincer Complexes.. ChemInform, 2004, 35, no.	0.1	0
120	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
121	Direct platination as a route to conformationally restricted enantiopure C2-symmetric bisoxazoline pincer complexes. Tetrahedron: Asymmetry, 2004, 15, 2067-2073.	1.8	15
122	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
123	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
124	Catalysis of aldehyde and imine silylcyanation by platinum and palladium NCN-pincer complexes. Tetrahedron Letters, 2003, 44, 8773-8776.	0.7	51
125	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
126	Towards novel biolabels: synthesis of a tagged highly fluorescent Schiff-base aluminium complex. Tetrahedron Letters, 2002, 43, 5169-5171.	0.7	23

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127	New Ferrocenyloxazoline for the Preparation of Ferrocenes with Planar Chirality. Organometallics, 2000, 19, 3736-3739.	1.1	50