

Shu-Pao Wu

List of Publications by Year in descending order

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112
papers

3,864
citations

94269

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155451

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113
all docs

113
docs citations

113
times ranked

4380
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific two-photon fluorescent probe for cysteine detection in vivo. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120521.	2.0	8
2	Methylammonium Tin Tribromide Quantum Dots for Heavy Metal Ion Detection and Cellular Imaging. <i>ACS Applied Nano Materials</i> , 2022, 5, 2859-2874.	2.4	45
3	A two photon fluorescent probe for highly selective detection and endogenous imaging of hydrogen sulfide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 273, 121043.	2.0	8
4	A mitochondria-targeting near-infrared fluorescent probe for the in vivo detection of peroxynitrite. <i>Dyes and Pigments</i> , 2022, 205, 110521.	2.0	3
5	Skin Metabolomics. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 66-75.	3.1	39
6	Application of stimuli-responsive FRET behavior toward cyanide detection in a photo-switchable [2]pseudorotaxane polymer containing the BODIPY donor and the merocyanine acceptor. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2321-2333.	2.7	15
7	The Responses of Bioactive Betanin Pigment and Its Derivatives from a Red Beetroot (<i>Beta vulgaris</i> L.) Betalain-Rich Extract to Hypochlorous Acid. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1155.	1.8	4
8	Acid-base controllable nanostructures and the fluorescence detection of $H_2PO_4^-$ by the molecular shuttling of tetraphenylethene-based [2]rotaxanes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3215-3228.	2.7	10
9	A pH cooperative strategy for enhanced colorimetric sensing of Cr(III) ions using biocompatible L-glutamic acid stabilized gold nanoparticles. <i>Microchemical Journal</i> , 2021, 160, 105754.	2.3	23
10	Simultaneous Quantitation of Seven Phenethylamine-Type Drugs in Forensic Blood and Urine Samples by UHPLC-MS-MS. <i>Journal of Analytical Toxicology</i> , 2021, , .	1.7	2
11	Pyrene-Based AIEE Active Nanoprobe for Zn^{2+} and Tyrosine Detection Demonstrated by DFT, Bioimaging, and Organic Thin-Film Transistor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28610-28626.	4.0	53
12	Covalent-Assembly-Triggered Striking Far-Red to near-Infrared Emitting Fluorescent Probe for Abrupt Detection of Nerve-Agent Mimic (DCP): Real Time Application in Monitoring the Presence of Trace Amounts in Soil and Live Cells. <i>ACS Applied Bio Materials</i> , 2021, 4, 7007-7015.	2.3	3
13	Reversible enhancement of fluorescence in acidic pH driven by tryptophan stabilized copper nanoclusters and its application in bioimaging. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 421, 113526.	2.0	7
14	Nonpolar Side Chains Affect the Photochemical Redox Reactions of Copper(II)-Amino Acid Complexes in Aqueous Solutions. <i>ACS Omega</i> , 2021, 6, 28194-28202.	1.6	2
15	Automation of mass spectrometric detection of analytes and related workflows: A review. <i>Talanta</i> , 2020, 208, 120304.	2.9	30
16	Rapid Extraction and Analysis of Volatile Solutes with an Effervescent Tablet. <i>Analytical Chemistry</i> , 2020, 92, 2756-2763.	3.2	14
17	Nanomolar Detection of H_2S in an Aqueous Medium: Application in Endogenous and Exogenous Imaging of HeLa Cells and Zebrafish. <i>ACS Omega</i> , 2020, 5, 19896-19904.	1.6	3
18	Two-photon active fluorescent indicator for detecting NADH dynamics in live cells and tumor tissue. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128637.	4.0	18

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19	Novel rhodamine probe for colorimetric and fluorescent detection of Fe ³⁺ ions in aqueous media with cellular imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118757.	2.0	47
20	ESIPT triggered swift determination of cysteine in HeLa cell line during redox imbalance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 403, 112875.	2.0	6
21	Ultrasensitive and specific two-photon fluorescence detection of hypochlorous acid by a lysosome-targeting fluorescent probe for cell imaging. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 190, 113545.	1.4	8
22	Bright Luminescent Carbon Dots for Multifunctional Selective Sensing and Imaging Applications in Living Cells. <i>ACS Applied Bio Materials</i> , 2020, 3, 6439-6446.	2.3	25
23	A fluorescent turn-on probe for detection of hypochlorous acid and its bioimaging in living cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 233, 118234.	2.0	12
24	A highly selective fluorescent anthracene-based chemosensor for imaging Zn ²⁺ in living cells and zebrafish. <i>Inorganic Chemistry Communication</i> , 2020, 115, 107882.	1.8	7
25	Multi-Stimuli Responsive FRET Processes of Bifluorophoric AIEgens in an Amphiphilic Copolymer and Its Application to Cyanide Detection in Aqueous Media. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10959-10972.	4.0	81
26	Naphthalimide based smart sensor for CN ⁻ /Fe ³⁺ and H ₂ S. Synthesis and application in RAW264.7 cells and zebrafish imaging. <i>RSC Advances</i> , 2020, 10, 8751-8759.	1.7	18
27	In Vitro and In Vivo Approach of Hydrogen-Sulfide-Responsive Drug Release Driven by Azide-Functionalized Mesoporous Silica Nanoparticles. <i>ACS Applied Bio Materials</i> , 2019, 2, 3886-3896.	2.3	22
28	Turn on fluorescent chemosensor containing rhodamine B fluorophore for selective sensing and in vivo fluorescent imaging of Fe ³⁺ ions in HeLa cell line and zebrafish. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 384, 112060.	2.0	19
29	Total sulfur determination in petroleum fuels for routine quality control by sector field inductively coupled plasma mass spectrometry after dilution treatment. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 570-576.	1.6	5
30	A nano-molar fluorescent turn-on probe for copper(II) detection in living cells. <i>Methods</i> , 2019, 168, 18-23.	1.9	18
31	Coumarin-based Hg ²⁺ fluorescent probe: Fluorescence turn-on detection for Hg ²⁺ bioimaging in living cells and zebrafish. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 219, 135-140.	2.0	52
32	A far-red to NIR emitting ultra-sensitive probe for the detection of endogenous HOCl in zebrafish and the RAW 264.7 cell line. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 3538-3544.	1.5	10
33	Redox Stimuli Delivery Vehicle Based on Transferrin-Capped MSNPs for Targeted Drug Delivery in Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2019, 2, 1623-1633.	2.3	11
34	Cysteamine-capped gold-copper nanoclusters for fluorometric determination and imaging of chromium(VI) and dopamine. <i>Mikrochimica Acta</i> , 2019, 186, 788.	2.5	32
35	FRET-based dual channel fluorescent probe for detecting endogenous/exogenous H ₂ O ₂ /H ₂ S formation through multicolor images. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 191, 99-106.	1.7	27
36	Cysteamine-modified diamond nanoparticles applied in cellular imaging and Hg ²⁺ ions detection. <i>Applied Surface Science</i> , 2019, 465, 340-350.	3.1	26

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37	Highly Selective Detection of Cr ³⁺ Ion with Colorimetric & Fluorescent Response Via Chemodosimetric Approach in Aqueous Medium. <i>Journal of Fluorescence</i> , 2018, 28, 663-670.	1.3	10
38	Degradable NIR-PTT Nanoagents with a Potential Cu ₂ O@Polymer Structure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5161-5174.	4.0	33
39	A hydrogen sulfide triggered self-immolative fluorescent probe for lysosome labeling in live cells. <i>New Journal of Chemistry</i> , 2018, 42, 1590-1594.	1.4	23
40	Nanodiamonds conjugated to gold nanoparticles for colorimetric detection of clenbuterol and chromium(III) in urine. <i>Mikrochimica Acta</i> , 2018, 185, 74.	2.5	34
41	A novel nanomolar highly selective fluorescent probe for imaging mercury (II) in living cells and zebrafish. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 673-678.	4.0	22
42	Analysis of metal ion impurity in tetraethyl orthosilicate by sector field inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 243-248.	1.5	2
43	Multi-stimuli-responsive high contrast fluorescence molecular controls with a far-red emitting BODIPY-based [2]rotaxane. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 382-395.	4.0	10
44	Fluorescent coumarin-based probe for cysteine and homocysteine with live cell application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 183, 204-208.	2.0	22
45	A rhodamine-based chemosensor with diphenylselenium for highly selective fluorescence turn-on detection of Hg ²⁺ in vitro and in vivo. <i>RSC Advances</i> , 2017, 7, 21733-21739.	1.7	36
46	Highly selective turn-on probe for H ₂ S with imaging applications in vitro and in vivo. <i>New Journal of Chemistry</i> , 2017, 41, 13510-13515.	1.4	16
47	A triple action chemosensor for Cu ²⁺ by chromogenic, Cr ³⁺ by fluorogenic and CN ⁻ by relay recognition methods with bio-imaging of HeLa cells. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1441-1448.	1.6	22
48	Simultaneous Quantitation of Methamphetamine, Ketamine, Opiates and their Metabolites in Urine by SPE and LC-MS-MS. <i>Journal of Analytical Toxicology</i> , 2017, 41, 679-687.	1.7	30
49	New phenazine based AIE probes for selective detection of aluminium(III) ions in presence of other trivalent metal ions in living cells. <i>Analyst</i> , 2017, 142, 4721-4726.	1.7	39
50	Forensic applications of direct analysis in real time (DART) coupled to Q-orbitrap tandem mass spectrometry for the in situ analysis of pigments from paint evidence. <i>Forensic Science International</i> , 2017, 277, 179-187.	1.3	15
51	Gd ₂ O ₃ :RE ³⁺ and GdAlO ₃ :RE ³⁺ (RE = Eu,) <i>Tj ETQq1 1 0.784314 rgB</i> <i>Nanotechnology</i> , 2017, 17, 1178-1184.	0.9	9
52	An NAD(P)H:quinone oxidoreductase 1 (NQO1) enzyme responsive nanocarrier based on mesoporous silica nanoparticles for tumor targeted drug delivery in vitro and in vivo. <i>Nanoscale</i> , 2016, 8, 12307-12317.	2.8	50
53	A coumarin-based fluorescent probe for thiols and its application in cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 732-737.	4.0	44
54	The detection of multiple illicit street drugs in liquid samples by direct analysis in real time (DART) coupled to Q-orbitrap tandem mass spectrometry. <i>Forensic Science International</i> , 2016, 267, 1-6.	1.3	21

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55	Hypochlorite scavenging activity of cerium oxide nanoparticles. RSC Advances, 2016, 6, 62911-62915.	1.7	6
56	Hydro gel light-guiding conjunction for absorptive type multi-ions detection. Sensors and Actuators B: Chemical, 2016, 233, 535-539.	4.0	2
57	Novel ratiometric turn-on fluorescent probe for selective sensing of cyanide ions, effect of substitution and bio-imaging studies. RSC Advances, 2016, 6, 24229-24235.	1.7	24
58	A highly selective turn-on fluorescent probe for hypochlorous acid based on hypochlorous acid-induced oxidative intramolecular cyclization of boron dipyrromethene-hydrazone. Analytica Chimica Acta, 2015, 882, 68-75.	2.6	62
59	A turn-on fluorescent probe for hypochlorous acid based on the oxidation of diphenyl telluride. Analyst, The, 2015, 140, 1349-1355.	1.7	74
60	Anthracene coupled thiourea as a colorimetric sensor for $F\hat{a}^{2+}/Cu^{2+}$ and fluorescent sensor for $Hg^{2+}/picric\ acid$. Journal of Luminescence, 2015, 161, 411-416.	1.5	33
61	A highly selective fluorescent sensor for Hg^{2+} based on an NTe_2 chelating motif and its application to living cell imaging. New Journal of Chemistry, 2015, 39, 3551-3557.	1.4	11
62	A fluorescent turn-on probe for $Hg(II)$ based on an NTe_2 chelating motif and its application in living cell imaging. Sensors and Actuators B: Chemical, 2015, 212, 382-388.	4.0	18
63	Colorimetric detection of chromium(III) using O-phospho-L-serine dithiocarbamic acid functionalized gold nanoparticles. Sensors and Actuators B: Chemical, 2015, 220, 772-778.	4.0	24
64	New insight on optical and magnetic Fe_3O_4 nanoclusters promising for near infrared theranostic applications. Nanoscale, 2015, 7, 12689-12697.	2.8	57
65	A turn-on fluorescent probe for hypochlorous acid based on HOCl-promoted removal of the $C=N$ bond in BODIPY-hydrazone. New Journal of Chemistry, 2015, 39, 6892-6898.	1.4	35
66	A highly fluorescent zinc complex of a dipodal N-acyl hydrazone as a selective sensor for $H_2PO_4^-$ ions and application in living cells. Inorganic Chemistry Frontiers, 2015, 2, 649-656.	3.0	33
67	A turn-on fluorescent pyrene-based chemosensor for Cu^{2+} with live cell application. RSC Advances, 2015, 5, 42591-42596.	1.7	43
68	Graphene Oxide Based Nanocarrier Combined with a pH-Sensitive Tracer: A Vehicle for Concurrent pH Sensing and pH-Responsive Oligonucleotide Delivery. ACS Applied Materials & Interfaces, 2015, 7, 11467-11475.	4.0	26
69	A turn-on fluorescent sensor for cysteine based on BODIPY functionalized Au nanoparticles and its application in living cell imaging. Sensors and Actuators B: Chemical, 2015, 221, 1366-1371.	4.0	19
70	Quinone-Modified Mn-Doped ZnS Quantum Dots for Room-Temperature Phosphorescence Sensing of Human Cancer Cells That Overexpress NQO1. ACS Applied Materials & Interfaces, 2015, 7, 25961-25969.	4.0	35
71	A pyrene-linked thiourea as a chemosensor for cations and simple fluorescent sensor for picric acid. Analytical Methods, 2015, 7, 1161-1166.	1.3	36
72	Zinc(II) and pyrophosphate selective fluorescence probe and its application to living cell imaging. Sensors and Actuators B: Chemical, 2015, 207, 563-570.	4.0	45

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73	Heterocyclic ring based colorimetric and fluorescent chemosensor for transition metal ions in an aqueous medium. <i>Journal of Luminescence</i> , 2015, 158, 484-492.	1.5	11
74	Colorimetric sensing of iodide based on triazole-acetamide functionalized gold nanoparticles. <i>Mikrochimica Acta</i> , 2014, 181, 573-579.	2.5	32
75	Highly selective and sensitive colorimetric detection of Ag(I) using N-1-(2-mercaptoethyl)adenine functionalized gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2014, 197, 172-176.	4.0	50
76	A hypochlorous acid turn-on fluorescent probe based on HOCl-promoted oxime oxidation and its application in cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 203-207.	4.0	82
77	Triazole-acetate functionalized gold nanoparticles for colorimetric Pb(II) sensing. <i>RSC Advances</i> , 2014, 4, 25251-25256.	1.7	17
78	Redox responsive Pd(II) templated rotaxane nanovalve capped mesoporous silica nanoparticles: a folic acid mediated biocompatible cancer-targeted drug delivery system. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7009-7016.	2.9	28
79	A dual-mode chemosensor: Highly selective colorimetric fluorescent probe for Cu ²⁺ and F ⁻ ions. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 375-381.	4.0	37
80	A sensitive and selective fluorescent sensor for Zinc(II) and its application to living cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 719-725.	4.0	21
81	A highly selective turn-on fluorescent sensor for fluoride and its application in imaging of living cells. <i>New Journal of Chemistry</i> , 2014, 38, 6198-6204.	1.4	31
82	A fluorescence turn-on probe for cysteine and homocysteine based on thiol-triggered benzothiazolidine ring formation. <i>Analytica Chimica Acta</i> , 2014, 849, 64-69.	2.6	37
83	A coumarin-based sensitive and selective fluorescent sensor for copper(II) ions. <i>New Journal of Chemistry</i> , 2014, 38, 4434-4439.	1.4	95
84	Colorimetric detection of Cu(II): Cu(II)-induced deprotonation of NH responsible for color change. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 688-693.	4.0	17
85	Colorimetric detection of Cd(II) ions based on di-(1H-pyrrol-2-yl)methanethione functionalized gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 86-91.	4.0	51
86	A highly selective turn-on fluorescence chemosensor for Hg(II) and its application in living cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 25-30.	4.0	39
87	Highly fluorescent probe for copper (II) ion based on commercially available compounds and live cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 285-293.	4.0	84
88	A Pyrene-based Highly Selective Turn-on Fluorescent Chemosensor for Iron(III) Ions and its Application in Living Cell Imaging. <i>Journal of Fluorescence</i> , 2013, 23, 1139-1145.	1.3	45
89	A pyrene-based highly selective turn-on fluorescent sensor for copper(II) ions and its application in living cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 743-748.	4.0	74
90	A highly selective turn-on fluorescent sensor for Cu(II) based on an NSe ₂ chelating moiety and its application in living cell imaging. <i>Analyst</i> , 2013, 138, 3264.	1.7	76

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91	Triazole functionalized gold nanoparticles for colorimetric Cr ³⁺ sensing. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 354-359.	4.0	78
92	Hypochlorous acid turn-on boron dipyrromethene probe based on oxidation of methyl phenyl sulfide. <i>Analytica Chimica Acta</i> , 2013, 800, 71-76.	2.6	69
93	Colorimetric detection of Al ³⁺ ions using triazole-ether functionalized gold nanoparticles. <i>Talanta</i> , 2013, 117, 70-74.	2.9	40
94	Hypochlorous Acid Turn-on Fluorescent Probe Based on Oxidation of Diphenyl Selenide. <i>Organic Letters</i> , 2013, 15, 878-881.	2.4	214
95	Highly selective fluorescent sensors for mercury(II) ions and their applications in living cell imaging. <i>Tetrahedron</i> , 2013, 69, 1965-1969.	1.0	44
96	The Oxidation of Phenylhydrazine by Tyrosinase. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 2420-2429.	1.4	5
97	New water-soluble highly selective fluorescent chemosensor for Fe (III) ions and its application to living cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 1110-1116.	4.0	98
98	A BODIPY-based colorimetric and fluorometric chemosensor for Hg(ii) ions and its application to living cell imaging. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5410.	1.5	63
99	A BODIPY-Based Highly Selective Fluorescent Chemosensor for Hg ²⁺ Ions and Its Application in Living Cell Imaging. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 1158-1163.	1.2	43
100	A Pyrene-based Highly Selective Turn-on Fluorescent Sensor for Copper(II) Ion and its Application in Live Cell Imaging. <i>Journal of Fluorescence</i> , 2012, 22, 253-259.	1.3	48
101	Colorimetric detection of Fe ³⁺ ions using pyrophosphate functionalized gold nanoparticles. <i>Analyst</i> , 2011, 136, 1887.	1.7	161
102	An NBD-based Sensitive and Selective Fluorescent Sensor for Copper(II) Ion. <i>Journal of Fluorescence</i> , 2011, 21, 1599-1605.	1.3	44
103	Redox chemistry of the <i>Schizosaccharomyces pombe</i> ferredoxin electron-transfer domain and influence of Cys to Ser substitutions. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 806-811.	1.5	10
104	Control of reduction thermodynamics in [2Fe-2S] ferredoxins. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 691-696.	1.5	12
105	A highly selective turn-on fluorescent chemosensor for copper(II) ion. <i>Tetrahedron</i> , 2010, 66, 9655-9658.	1.0	98
106	Colorimetric sensing of Cu(ii): Cu(ii) induced deprotonation of an amide responsible for color changes. <i>Dalton Transactions</i> , 2010, 39, 4363.	1.6	76
107	A new water-soluble fluorescent Cu(II) chemosensor based on tetrapeptide histidyl-glycyl-glycyl-glycine (HGCG). <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 187-191.	4.0	25
108	Infinite chiral single-helical structures formed by the self-assembly of Cu(ii)-N-(2-pyridylmethyl)-aspartate complexes. <i>CrystEngComm</i> , 2009, 11, 219-222.	1.3	22

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109	Colorimetric sensing of Cu(ii) by 2-methyl-3-[(pyridin-2-ylmethyl)-amino]-1,4-naphthoquinone: Cu(ii) induced deprotonation of NH responsible for color changes. Dalton Transactions, 2009, , 4735.	1.6	66
110	Iron-Sulfur Cluster Biosynthesis. Journal of Biological Chemistry, 2004, 279, 10469-10475.	1.6	33
111	Spectroscopic and electronic properties of mixed ligand aminoacidatocopper(II) complexes. Polyhedron, 1999, 18, 2361-2368.	1.0	20
112	Electronic and bonding properties of acetylacetonato copper(II) complexes. Molecular structure of [Cu(Acetylacetonato)(1,10-phenanthroline)(ClO ₄)(0.5CH ₃ CN)]. Polyhedron, 1995, 14, 267-275.	1.0	31