

# Sofia I Pascu

## List of Publications by Year in descending order

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114  
papers

3,462  
citations

109137

35  
h-index

168136

53  
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129  
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129  
docs citations

129  
times ranked

4852  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triplet Energy Back Transfer in Conjugated Polymers with Pendant Phosphorescent Iridium Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 6647-6656.	6.6	226
2	Noncovalent Interactions within a Synthetic Receptor Can Reinforce Guest Binding. <i>Journal of the American Chemical Society</i> , 2006, 128, 11206-11210.	6.6	150
3	Blue-to-green electrophosphorescence of iridium-based cyclometallated materials. <i>Chemical Communications</i> , 2005, , 4708.	2.2	98
4	Poly(9,9-dialkyl-3,6-dibenzosilole)â€™a high energy gap host for phosphorescent light emitting devices. <i>Chemical Communications</i> , 2005, , 5766.	2.2	88
5	Cellular confocal fluorescence studies and cytotoxic activity of new Zn(ii) bis(thiosemicarbazonato) complexes. <i>Dalton Transactions</i> , 2008, , 2107.	1.6	83
6	Synthesis and Characterization of Tetrahedral and Square Planar Bis(iminopyrrolyl) Complexes of Cobalt(II). <i>Inorganic Chemistry</i> , 2007, 46, 6880-6890.	1.9	79
7	Stabilisation of a heptamethine cyanine dye by rotaxane encapsulation. <i>Chemical Communications</i> , 2008, , 2897.	2.2	79
8	Ditopic boronic acid and imine-based naphthalimide fluorescence sensor for copper(<sc>ii</sc>). <i>Chemical Communications</i> , 2014, 50, 11806-11809.	2.2	76
9	Designing Zn(ii) and Cu(ii) derivatives as probes for in vitro fluorescence imaging. <i>Dalton Transactions</i> , 2007, , 4988.	1.6	72
10	Probing Flexibility in Porphyrin-Based Molecular Wires Using Double Electron Electron Resonance. <i>Journal of the American Chemical Society</i> , 2009, 131, 13852-13859.	6.6	70
11	Interlocked Host Anion Recognition by an Indolocarbazole-Containing [2]Rotaxane. <i>Journal of the American Chemical Society</i> , 2009, 131, 4937-4952.	6.6	70
12	Inclusion of C60 into an adjustable porphyrin dimer generated by dynamic disulfide chemistry. <i>Chemical Communications</i> , 2005, , 1276.	2.2	67
13	Engineering conjugation in para-phenylene-bridged porphyrin tapes. <i>Chemical Science</i> , 2012, 3, 1541.	3.7	67
14	Cobalt catalysts for the conversion of CO2 to light hydrocarbons at atmospheric pressure. <i>Chemical Communications</i> , 2013, 49, 11683.	2.2	64
15	Synthesis and study of new binuclear compounds containing bridging (Î¼4-CN)B(C6F5)3 and (Î¼4-NC)B(C6F5)3 systems. <i>Dalton Transactions</i> , 2003, , 2550-2557.	1.6	63
16	The Development of Boronic Acids as Sensors and Separation Tools. <i>Chemical Record</i> , 2012, 12, 464-478.	2.9	61
17	The chemistry of PET imaging with zirconium-89. <i>Chemical Society Reviews</i> , 2018, 47, 2554-2571.	18.7	60
18	Fluorescent Copper(II) Bis(thiosemicarbazonates): Synthesis, Structures, Electron Paramagnetic Resonance, Radiolabeling, In Vitro Cytotoxicity and Confocal Fluorescence Microscopy Studies. <i>Chemistry - an Asian Journal</i> , 2010, 5, 506-519.	1.7	59

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19	Fluorescent gallium and indium bis(thiosemicarbazones) and their radiolabelled analogues: Synthesis, structures and cellular confocal fluorescence imaging investigations. Dalton Transactions, 2011, 40, 6238.	1.6	57
20	Tripodal N-Heterocyclic Carbene Complexes of Palladium and Copper: Syntheses, Characterization, and Catalytic Activity. Organometallics, 2010, 29, 4097-4104.	1.1	56
21	Supramolecular Assemblies of Tripodal Porphyrin Hosts and C <sub>60</sub> . Chemistry - A European Journal, 2008, 14, 3035-3044.	1.7	50
22	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
23	Interactions Between Amino Acid-Tagged Naphthalenediimide and Single Walled Carbon Nanotubes for the Design and Construction of New Bioimaging Probes. Advanced Functional Materials, 2012, 22, 503-518.	7.8	49
24	Synthesis, Structure and Magnetic Behavior of Five-Coordinate Bis(iminopyrrolyl) Complexes of Cobalt(II) containing PMe <sub>3</sub> and THF Ligands. Inorganic Chemistry, 2008, 47, 8896-8911.	1.9	48
25	Synthesis of allyl- and aryl-iminopyrrolyl complexes of nickel. Dalton Transactions, 2003, , 4431-4436.	1.6	47
26	Cation-reinforced donor-acceptor pseudorotaxanes. New Journal of Chemistry, 2005, 29, 80.	1.4	46
27	The effect of fluorinated aryl substituents on the crystal structures of 1,2,3,5-dithiadiazolyl radicals. CrystEngComm, 2010, 12, 172-185.	1.3	46
28	Crystal structures and magnetic properties of a sterically encumbered dithiadiazolyl radical, 2,4,6-(F <sub>3</sub> C) <sub>3</sub> C <sub>6</sub> H <sub>2</sub> CN <sub>2</sub> SN <sub>2</sub> ™. Chemical Communications, 2005, , 4726.	2.2	45
29	Understanding the Nature of the States Responsible for the Green Emission in Oxidized Poly(9,9-dialkylfluorene): Photophysics and Structural Studies of Linear Dialkylfluorene/Fluorenone Model Compounds. Advanced Functional Materials, 2009, 19, 2147-2154.	7.8	44
30	Synthesis of a new bidentate ferrocenyl N-heterocyclic carbene ligand precursor and the palladium (II) complex trans-[PdCl <sub>2</sub> (Câ€¦â€¦â€¦)], where (Câ€¦â€¦â€¦)=1,1-di-tert-butyl-3,3-(1,1-dimethyleneferrocenyl)-diimidazol-2-ylidene. Journal of Organometallic Chemistry, 2005, 690, 653-658.	0.8	43
31	Explorations into the Effect of <i>meso</i> -Substituents in Tricarbocyanine Dyes: A Path to Diverse Biomolecular Probes and Materials. Angewandte Chemie - International Edition, 2021, 60, 6230-6241.	7.2	43
32	Synthesis, Structure, and Solution Dynamics of Neutral Allylnickel Complexes of N-Heterocyclic Carbenes. Organometallics, 2006, 25, 4391-4403.	1.1	42
33	High CO <sub>2</sub> and CO conversion to hydrocarbons using bridged Fe nanoparticles on carbon nanotubes. Catalysis Science and Technology, 2013, 3, 1202.	2.1	42
34	Synthesis of the originally proposed structures of elatenyne and an enyne from Laurencia majuscula. Organic and Biomolecular Chemistry, 2009, 7, 238-252.	1.5	38
35	Fe@CNT-monoliths for the conversion of carbon dioxide to hydrocarbons: structural characterisation and Fischer-Tropsch reactivity investigations. Catalysis Science and Technology, 2014, 4, 3351-3358.	2.1	37
36	Metallic nanoparticles as synthetic building blocks for cancer diagnostics: from materials design to molecular imaging applications. Journal of Materials Chemistry B, 2015, 3, 5657-5672.	2.9	37

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37	Palladium(ii) complexes with the bidentate iminophosphine ligand [Ph <sub>2</sub> PCH <sub>2</sub> C(Ph)N(2,6-Me <sub>2</sub> C <sub>6</sub> H <sub>3</sub> )]. Dalton Transactions RSC, 2001, , 3384-3395.	2.3	35
38	Synthesis of (+)-Obtusenyne. Chemistry - A European Journal, 2008, 14, 2867-2885.	1.7	35
39	Oxygen Sensing, Hypoxia Tracing and in Vivo Imaging with Functional Metalloprobes for the Early Detection of Non-communicable Diseases. Frontiers in Chemistry, 2018, 6, 27.	1.8	34
40	Shining light on the stability of metal thiosemicarbazone complexes in living cells by FLIM. Chemical Science, 2013, 4, 1430.	3.7	33
41	Lysosomal tracking with a cationic naphthalimide using multiphoton fluorescence lifetime imaging microscopy. Chemical Communications, 2017, 53, 11161-11164.	2.2	32
42	New developments in the biomedical chemistry of metal complexes: from small molecules to nanotheranostic design. Organometallic Chemistry, 2012, , 1-35.	0.6	31
43	Thermally Reduced Graphene Oxide Nanohybrids of Chiral Functional Naphthalenediimides for Prostate Cancer Cells Bioimaging. Advanced Functional Materials, 2016, 26, 5641-5657.	7.8	31
44	Investigation of conjugate addition/intramolecular nitrene dipolar cycloadditions and their use in the synthesis of dendrobatid alkaloid precursors Nitrene dipolar cycloaddition routes to piperidines and indolizidines. Part 10. For part 9, see ref. 1.. Organic and Biomolecular Chemistry, 2004, 2, 1258.	1.5	30
45	Large-scale synthesis of alkyne-linked tripodal porphyrins via palladium-mediated coupling conditions. Chemical Communications, 2006, , 1085.	2.2	30
46	Structures and solution dynamics of pseudorotaxanes mediated by alkali-metal cations. Dalton Transactions, 2007, , 3874.	1.6	30
47	Synthesis of sulfonamide conjugates of Cu(II), Ga(III), In(III), Re(V) and Zn(II) complexes: carbonic anhydrase inhibition studies and cellular imaging investigations. Dalton Transactions, 2015, 44, 4859-4873.	1.6	30
48	Aromatic donor-acceptor interactions in non-polar environments. Chemical Communications, 2015, 51, 8265-8268.	2.2	30
49	Promoter Effects on Iron-Silica Fischer-Tropsch Nanocatalysts: Conversion of Carbon Dioxide to Lower Olefins and Hydrocarbons at Atmospheric Pressure. ChemPlusChem, 2013, 78, 1536-1544.	1.3	28
50	Towards nanomedicines: design protocols to assemble, visualize and test carbon nanotube probes for multi-modality biomedical imaging. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3683-3712.	1.6	26
51	Dynamic synthesis of a macrocycle containing a porphyrin and an electron donor. Chemical Communications, 2005, , 1842.	2.2	25
52	Further studies on the polymorphic dithiadiazolyl radical, ClCNSSN. CrystEngComm, 2004, 6, 79.	1.3	24
53	Hydrothermal Conversion of One-Photon-Fluorescent Poly(4-vinylpyridine) into Two-Photon-Fluorescent Carbon Nanodots. Langmuir, 2014, 30, 11746-11752.	1.6	24
54	Microwave gallium-68 radiochemistry for kinetically stable bis(thiosemicarbazone) complexes: structural investigations and cellular uptake under hypoxia. Dalton Transactions, 2016, 45, 144-155.	1.6	23

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55	Behavior of Supramolecular Assemblies of Radiometal-Filled and Fluorescent Carbon Nanocapsules In Vitro and In Vivo. <i>CheM</i> , 2017, 3, 437-460.	5.8	22
56	Complexes of aryl-substituted porphyrins and naphthalenediimide (NDI): investigations by synchrotron X-ray diffraction and NMR spectroscopy. <i>Dalton Transactions</i> , 2011, 40, 10833.	1.6	21
57	A fluorescent Arg-Gly-Asp (RGD) peptide-naphthalenediimide (NDI) conjugate for imaging integrin $\alpha_5\beta_1$ in vitro. <i>Chemical Communications</i> , 2015, 51, 6901-6904.	2.2	21
58	Extracellular Electrophysiology in the Prostate Cancer Cell Model PC-3. <i>Sensors</i> , 2019, 19, 139.	2.1	21
59	Synthesis, structures and catalytic properties of iron(III) complexes with asymmetric N-capped tripodal NO <sub>3</sub> ligands and a pentadentate N <sub>2</sub> O <sub>3</sub> ligand. <i>Dalton Transactions</i> , 2008, , 4784.	1.6	20
60	Biotinylated boronic acid fluorophore conjugates: Quencher elimination strategy for imaging and saccharide detection. <i>RSC Advances</i> , 2012, 2, 3274.	1.7	20
61	Detection and monitoring prostate specific antigen using nanotechnology approaches to biosensing. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 4-18.	2.3	20
62	Structural investigations on new iron-acyl derivatives of B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> . <i>Journal of Organometallic Chemistry</i> , 2004, 689, 4407-4419.	0.8	19
63	New cationic palladium (II) and rhodium (I) complexes of [Ph <sub>2</sub> PCH <sub>2</sub> C(Ph)N(2,6-Me <sub>2</sub> C <sub>6</sub> H <sub>3</sub> )]. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 1645-1658.	0.8	18
64	Applications of "Hot" and "Cold" Bis(thiosemicarbazonato) Metal Complexes in Multimodal Imaging. <i>Chemical Record</i> , 2016, 16, 1380-1397.	2.9	18
65	Bis(ketopyrrolyl) complexes of Co(II) stabilised by trimethylphosphine ligands. <i>Dalton Transactions</i> , 2007, , 5460.	1.6	17
66	Interactions between tripodal porphyrin hosts and single walled carbon nanotubes: an experimental and theoretical (DFT) account. <i>Journal of Materials Chemistry</i> , 2008, 18, 2781.	6.7	17
67	Interactions between an Aryl Thioacetate-Functionalized Zn(II) Porphyrin and Graphene Oxide. <i>Advanced Functional Materials</i> , 2016, 26, 687-697.	7.8	17
68	The first oxygen-bridged diorganoarsenic(V) compound: the crystal structure of AsMe <sub>2</sub> (S)OAs(S)Me <sub>2</sub> . <i>Journal of Organometallic Chemistry</i> , 1997, 549, 187-192.	0.8	16
69	Design considerations towards simultaneously radiolabeled and fluorescent imaging probes incorporating metallic species. <i>Advances in Inorganic Chemistry</i> , 2009, , 131-178.	0.4	16
70	Fluorescence Lifetime Imaging and Super-Resolution Microscopies Shed Light on the Directed and Self-Assembly of Functional Porphyrins onto Carbon Nanotubes and Flat Surfaces. <i>Chemistry - A European Journal</i> , 2017, 23, 9772-9789.	1.7	16
71	New group 10 complexes of the bulky iminophosphine ligands [Ph <sub>2</sub> PCH <sub>2</sub> C(Ph)N(2,6-R <sub>2</sub> C <sub>6</sub> H <sub>3</sub> )], where R = Me, iPr. <i>New Journal of Chemistry</i> , 2005, 29, 385-397.	1.4	15
72	Encapsulation of Cadmium Selenide Nanocrystals in Biocompatible Nanotubes: DFT Calculations, X-ray Diffraction Investigations, and Confocal Fluorescence Imaging. <i>ChemistryOpen</i> , 2018, 7, 144-158.	0.9	15

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73	Synthesis, structure and catalytic activity of thioetherâ€“phosphane complexes of Pd(ii) and Pt(ii). Dalton Transactions, 2005, , 2151.	1.6	14
74	Re and <sup>99m</sup> Tc complexes of BodP3â€“ multi-modality imaging probes. Chemical Communications, 2014, 50, 15503-15505.	2.2	14
75	Synthesis, Radiolabelling and In Vitro Imaging of Multifunctional Nanoceramics. ChemNanoMat, 2018, 4, 361-372.	1.5	13
76	Development of a peptide-based fluorescent probe for biological heme monitoring. Organic and Biomolecular Chemistry, 2019, 17, 467-471.	1.5	13
77	Synthesis of $\eta^6$ -arene complexes of molybdenum containing $\eta^2$ -ketophosphine and related P,O mixed donor ligands. Dalton Transactions RSC, 2002, , 2491-2500.	2.3	11
78	Synthesis and structural investigations of Ni(II)- and Pd(II)-coordinated $\eta^2$ -diimines with chlorinated backbones. Inorganica Chimica Acta, 2010, 363, 1157-1172.	1.2	11
79	Radio- and nano-chemistry of aqueous Ga( <sup>iii</sup> ) ions anchored onto graphene oxide-modified complexes. Nanoscale, 2020, 12, 6603-6608.	2.8	11
80	Synthesis and structural investigations of bulky imino- and amido-phosphine palladium dimers. Inorganica Chimica Acta, 2006, 359, 3677-3692.	1.2	10
81	Explorations into the Effect of <i>meso</i> -Substituents in Tricarbocyanine Dyes: A Path to Diverse Biomolecular Probes and Materials. Angewandte Chemie, 2021, 133, 6295-6306.	1.6	10
82	Structural Investigations, Cellular Imaging, and Radiolabeling of Neutral, Polycationic, and Polyanionic Functional Metalloporphyrin Conjugates. Bioconjugate Chemistry, 2021, 32, 1374-1392.	1.8	10
83	Group 6 transition metal carbonyl complexes with chalcogen-bridged diarsenic(III) ligands. Dalton Transactions RSC, 2000, , 3347-3355.	2.3	8
84	Synthesis of a new zwitterionic cyclopentadienyl-imidazolium compound and isolation of the 3,3â€“(trans-3,5-cyclopentenyl)di(1-tert-butylimidazolium)bromide intermediate. Tetrahedron Letters, 2004, 45, 8695-8698.	0.7	8
85	Multiphoton fluorescence lifetime imaging microscopy (FLIM) and super-resolution fluorescence imaging with a supramolecular biopolymer for the controlled tagging of polysaccharides. Nanoscale, 2019, 11, 9498-9507.	2.8	8
86	Hybrid Hierarchical Heterostructures of Nanoceramic Phosphors as Imaging Agents for Multiplexing and Living Cancer Cells Translocation. ACS Applied Bio Materials, 2021, 4, 4105-4118.	2.3	7
87	Labeling of Graphene, Graphene Oxides, and of Their Congeners. Advances in Inorganic Chemistry, 2016, 68, 397-440.	0.4	6
88	Reactivity of cationic $\eta^2$ -diimine cyclopentadienyl nickel complexes towards AlEt <sub>2</sub> Cl: synthesis, characterisation and ethylene polymerisation. Catalysis Science and Technology, 2017, 7, 3128-3142.	2.1	6
89	Coordination and self-assembly in the crystal structure of K[AsMe <sub>2</sub> S <sub>2</sub> ] $\cdot$ 2H <sub>2</sub> O. Polyhedron, 1998, 17, 4115-4119.	1.0	5
90	One-pot synthesis, characterisation and kinetic stability of novel side-bridged pentaazamacrocyclic copper(ii) complexes. RSC Advances, 2014, 4, 12964.	1.7	5

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91	Recent developments in PET and SPECT imaging. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 191-194.	0.5	5
92	Confocal and fluorescence lifetime imaging sheds light on the fate of a pyrene-tagged carbon monoxide-releasing Fischer carbene chromium complex. <i>Dalton Transactions</i> , 2015, 44, 4957-4962.	1.6	5
93	Directed Molecular Stacking for Engineered Fluorescent Three-Dimensional Reduced Graphene Oxide and Coronene Frameworks. <i>ChemistryOpen</i> , 2019, 8, 1383-1398.	0.9	5
94	Silicon containing ferrocenyl phosphane ligands. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 770-774.	0.8	4
95	Structure-reactivity correlations in new W(IV) and Nb(IV) silicon-bridged ansa-metallocene hydrides. <i>Polyhedron</i> , 2006, 25, 406-420.	1.0	4
96	Shedding Light Onto the Nature of Iron Decorated Graphene and Graphite Oxide Nanohybrids for CO <sub>2</sub> Conversion at Atmospheric Pressure. <i>ChemistryOpen</i> , 2020, 9, 242-252.	0.9	4
97	Nanomedicines Design: Approaches towards the Imaging and Therapy of Brain Tumours. <i>Journal of Nanomedicine &amp; Nanotechnology</i> , 0, s4, .	1.1	4
98	Nano-Theranostics for the Sensing, Imaging and Therapy of Prostate Cancers. <i>Frontiers in Chemistry</i> , 2022, 10, 830133.	1.8	4
99	trans-Dichlorotri(cyclohexyl)arsenic(V). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1998, 54, 219-221.	0.4	3
100	Novel rhenium(V) nitride complexes with dithiocarbamate ligands – A synchrotron X-ray and DFT structural investigation. <i>Inorganica Chimica Acta</i> , 2018, 475, 142-149.	1.2	3
101	Self-Assembled Materials Incorporating Functional Porphyrins and Carbon Nanoplatfoms as Building Blocks for Photovoltaic Energy Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 727574.	1.8	3
102	Explorations into Peptide Nucleic Acid Contrast Agents as Emerging Scaffolds for Breakthrough Solutions in Medical Imaging and Diagnosis. <i>ACS Omega</i> , 2021, 6, 28455-28462.	1.6	3
103	SMALL MOLECULE FIXATION BY A SULFUR-NITROGEN RADICAL. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2004, 179, 981-982.	0.8	2
104	An unprecedented iron(III) complex supported by an asymmetric N-capped tripodal ligand incorporating the NO <sub>2</sub> S donor set. <i>Inorganica Chimica Acta</i> , 2010, 363, 1297-1300.	1.2	2
105	Ion-Transfer Voltammetry at Carbon Nanofibre Membranes Produced by 500°C Graphitisation/Graphenisation of Electrospun Polyacrylonitrile. <i>Electroanalysis</i> , 2014, 26, 69-75.	1.5	2
106	Zirconium-89 radio-nanochemistry and its applications towards the bioimaging of prostate cancer. <i>Inorganica Chimica Acta</i> , 2019, 496, 119041.	1.2	2
107	Functional, Aromatic, and Fluorinated Monothiosemicarbazones: Investigations into Their Structures and Activity toward the Gallium-68 Incorporation by Microwave Irradiation. <i>ACS Omega</i> , 2022, 7, 13750-13777.	1.6	2
108	Investigations into the reactivity of lithium indenyl with alpha diimines with chlorinated backbones and formation of related functional ligands and metal complexes. <i>Polyhedron</i> , 2016, 119, 532-547.	1.0	1

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109	Surface Modifications: Interactions between an Aryl Thioacetate-Functionalized Zn(II) Porphyrin and Graphene Oxide (Adv. Funct. Mater. 5/2016). Advanced Functional Materials, 2016, 26, 634-634.	7.8	1
110	Inclusion of C60 into an Adjustable Porphyrin Dimer Generated by Dynamic Disulfide Chemistry.. ChemInform, 2005, 36, no.	0.1	0
111	Dynamic Synthesis of a Macrocycle Containing a Porphyrin and an Electron Donor.. ChemInform, 2005, 36, no.	0.1	0
112	Synthesis of triplet emitters and hosts for electrophosphorescence. , 2005, 5937, 47.		0
113	Exploring Pathways for Activation of Carbon Monoxide by Palladium Iminophosphines. ChemPlusChem, 2013, 78, 1413-1420.	1.3	0
114	Frontispiece: Fluorescence-Lifetime Imaging and Super-Resolution Microscopies Shed Light on the Directed and Self-Assembly of Functional Porphyrins onto Carbon Nanotubes and Flat Surfaces. Chemistry - A European Journal, 2017, 23, .	1.7	0