

Aldrik H Velders

List of Publications by Year in descending order

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121
papers

4,934
citations

94433

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102487

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129
all docs

129
docs citations

129
times ranked

7530
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematically defined tissue engineering scaffold architectures prepared by stereolithography. <i>Biomaterials</i> , 2010, 31, 6909-6916.	11.4	437
2	Simple 3D Printed Scaffold Removal Method for the Fabrication of Intricate Microfluidic Devices. <i>Advanced Science</i> , 2015, 2, 1500125.	11.2	195
3	Strong Differences in the in Vitro Cytotoxicity of Three Isomeric Dichlorobis(2-phenylazopyridine)ruthenium(II) Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 2966-2967.	4.0	184
4	A Coordination Cage with an Adaptable Cavity Size. <i>Journal of the American Chemical Society</i> , 2010, 132, 14004-14005.	13.7	184
5	Flavonol 3-O-Glycosides Series of <i>Vitis vinifera</i> Cv. Petit Verdot Red Wine Grapes. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 209-219.	5.2	178
6	Chiral Salan Aluminium Ethyl Complexes and Their Application in Lactide Polymerization. <i>Chemistry - A European Journal</i> , 2009, 15, 9836-9845.	3.3	164
7	Polymerization of Lactide Using Achiral Bis(pyrrrolidene) Schiff Base Aluminum Complexes. <i>Macromolecules</i> , 2009, 42, 1058-1066.	4.8	131
8	Reversible Phase Transfer of (CdSe/ZnS) Quantum Dots between Organic and Aqueous Solutions. <i>ACS Nano</i> , 2009, 3, 661-667.	14.6	124
9	Synthesis and Chemical Pharmacological Characterization of the Antimetastatic NAMI-A-Type Ru(III) Complexes (Hdmtp)[trans-RuCl ₄ (dmsO-S)(dmtP)], (Na)[trans-RuCl ₄ (dmsO-S)(dmtP)], and [mer-RuCl ₃ (H ₂ O)(dmsO-S)(dmtP)] (dmtP = 5,7-Dimethyl[1,2,4]triazolo[1,5-a]pyrimidine). <i>Journal of Medicinal Chemistry</i> , 2004, 47, 1110-1121.	6.4	118
10	Interaction of dioxygen with the electronic excited state of Ir(III) and Ru(II) complexes: Principles and biomedical applications. <i>Coordination Chemistry Reviews</i> , 2011, 255, 2542-2554.	18.8	117
11	NMR Characterization of Fourth-Generation PAMAM Dendrimers in the Presence and Absence of Palladium Dendrimer-Encapsulated Nanoparticles. <i>Journal of the American Chemical Society</i> , 2009, 131, 341-350.	13.7	104
12	Multimodal Tumor-Targeting Peptides Functionalized with Both a Radio- and a Fluorescent Label. <i>Bioconjugate Chemistry</i> , 2010, 21, 1709-1719.	3.6	104
13	Strategies for Patterning Biomolecules with Dipen Nanolithography. <i>Small</i> , 2011, 7, 989-1002.	10.0	101
14	Ratiometric Fluorescent Detection of an Anthrax Biomarker at Molecular Printboards. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5938-5941.	13.8	100
15	Small-Volume Nuclear Magnetic Resonance Spectroscopy. <i>Annual Review of Analytical Chemistry</i> , 2011, 4, 227-249.	5.4	88
16	Synthesis, Characterization, and Crystal Structure of \pm -[Ru(azpy) ₂ (NO ₃) ₂] (azpy = 2-(Phenylazo)pyridine) and the Products of Its Reactions with Guanine Derivatives. <i>Inorganic Chemistry</i> , 2000, 39, 3838-3844.	4.0	79
17	New Cytotoxic and Water-Soluble Bis(2-phenylazopyridine)ruthenium(II) Complexes. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 1743-1750.	6.4	78
18	The Formation of Large Area Conducting Graphene-Like Platelets. <i>Chemistry - A European Journal</i> , 2009, 15, 8235-8240.	3.3	76

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19	Reaction Pathways in Catechol/Primary Amine Mixtures: A Window on Crosslinking Chemistry. PLoS ONE, 2016, 11, e0166490.	2.5	73
20	Phosphorescence Imaging of Living Cells with Amino Acid-Functionalized Tris(2-phenylpyridine)iridium(III) Complexes. Inorganic Chemistry, 2012, 51, 2105-2114.	4.0	70
21	Pushing nuclear magnetic resonance sensitivity limits with microfluidics and photo-chemically induced dynamic nuclear polarization. Nature Communications, 2018, 9, 108.	12.8	69
22	Fabrication and Luminescence of Designer Surface Patterns with β -Cyclodextrin Functionalized Quantum Dots via Multivalent Supramolecular Coupling. ACS Nano, 2010, 4, 137-142.	14.6	68
23	Multivalent Nanoparticle Networks as Ultrasensitive Enzyme Sensors. Angewandte Chemie - International Edition, 2011, 50, 5704-5707.	13.8	68
24	Evaluation of superparamagnetic iron oxide nanoparticles (Endorem [®]) as a photoacoustic contrast agent for intraoperative nodal staging. Contrast Media and Molecular Imaging, 2013, 8, 83-91.	0.8	63
25	Orthogonal Covalent and Noncovalent Functionalization of Cyclodextrin-Alkyne Patterned Surfaces. Journal of the American Chemical Society, 2010, 132, 11434-11436.	13.7	58
26	Controlled mixing of lanthanide(III) ions in coacervate core micelles. Chemical Communications, 2013, 49, 3736.	4.1	57
27	Multinuclear nanoliter one-dimensional and two-dimensional NMR spectroscopy with a single non-resonant microcoil. Nature Communications, 2014, 5, 3025.	12.8	53
28	Nanoparticle Size Determination by ¹ H NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 14634-14635.	13.7	46
29	On-line monitoring of a microwave-assisted chemical reaction by nanolitre NMR-spectroscopy. Chemical Communications, 2010, 46, 4514.	4.1	46
30	Dichlorobis(2-phenylazopyridine)ruthenium(II) complexes: characterisation, spectroscopic and structural properties of four isomers. Dalton Transactions, 2004, , 448-455.	3.3	45
31	Expression of Sensitized Eu ³⁺ Luminescence at a Multivalent Interface. Journal of the American Chemical Society, 2009, 131, 12567-12569.	13.7	44
32	An update on radiotracer development for molecular imaging of bacterial infections. Clinical and Translational Imaging, 2019, 7, 105-124.	2.1	44
33	Photoluminescence Quenching of CdSe/ZnS Quantum Dots by Molecular Ferrocene and Ferrocenyl Thiol Ligands. Journal of Physical Chemistry C, 2009, 113, 18676-18680.	3.1	43
34	Peptide-functionalized Luminescent Iridium Complexes for Lifetime Imaging of CXCR4 Expression. ChemBioChem, 2011, 12, 1897-1903.	2.6	43
35	Bias induced transition from an ohmic to a non-ohmic interface in supramolecular tunneling junctions with Ga ₂ O ₃ /EGaIn top electrodes. Nanoscale, 2014, 6, 11246-11258.	5.6	41
36	Supramolecular Au Nanoparticle Assemblies as Optical Probes for Enzyme-linked Immunoassays. Small, 2011, 7, 66-69.	10.0	39

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37	CCVD Synthesis of Carbon-Encapsulated Cobalt Nanoparticles for Biomedical Applications. <i>Advanced Functional Materials</i> , 2011, 21, 3583-3588.	14.9	39
38	Biomimetic Crystallization of Ag ₂ S Nanoclusters in Nanopore Assemblies. <i>Journal of the American Chemical Society</i> , 2011, 133, 2875-2877.	13.7	38
39	Porous Multilayer-Coated AFM Tips for Dip-Pen Nanolithography of Proteins. <i>Journal of the American Chemical Society</i> , 2009, 131, 7526-7527.	13.7	36
40	Self-assembly triggered by self-assembly: Optically active, paramagnetic micelles encapsulated in protein cage nanoparticles. <i>Journal of Inorganic Biochemistry</i> , 2014, 136, 140-146.	3.5	36
41	Photo-Cross-Linked Poly(<i>dl</i> -lactide)-Based Networks. Structural Characterization by HR-MAS NMR Spectroscopy and Hydrolytic Degradation Behavior. <i>Macromolecules</i> , 2010, 43, 8570-8579.	4.8	32
42	Dendritic Ruthenium(II)-Based Dyes Tuneable for Diagnostic or Therapeutic Applications. <i>Chemistry - A European Journal</i> , 2011, 17, 464-467.	3.3	32
43	Protein Immobilization on Ni(II) Ion Patterns Prepared by Microcontact Printing and Dip-Pen Nanolithography. <i>ACS Nano</i> , 2010, 4, 1083-1091.	14.6	31
44	Dipeptide recognition in water mediated by mixed monolayer protected gold nanoparticles. <i>Chemical Communications</i> , 2015, 51, 14247-14250.	4.1	31
45	Diverse reactivity of 2-formylphenylboronic acid with secondary amines: synthesis of 3-amino-substituted benzoxaboroles. <i>Tetrahedron Letters</i> , 2010, 51, 6181-6185.	1.4	30
46	Tunable doping of a metal with molecular spins. <i>Nature Nanotechnology</i> , 2012, 7, 232-236.	31.5	29
47	Loop-mediated isothermal amplification (LAMP) shield for Arduino DNA detection. <i>BMC Research Notes</i> , 2018, 11, 93.	1.4	29
48	Tuning the Rotational Behavior of Lopsided Heterocyclic Nitrogen Ligands (L) in Octahedral cis-[Ru(bpy) ₂ (L) ₂](PF ₆) ₂ Complexes. A Variable-Temperature ¹ H NMR Study. <i>Inorganic Chemistry</i> , 2000, 39, 4073-4080.	4.0	27
49	The First Observation and Full Characterization of All Atropisomers and Their Allowed Interconversions in an Octahedral Bis(bipyridine)ruthenium(II) Complex with Two Lopsided Bicyclic Ligands, as Studied by 2D NMR Techniques at Variable Temperature. <i>Inorganic Chemistry</i> , 1999, 38, 2762-2763.	4.0	26
50	Control over Rectification in Supramolecular Tunneling Junctions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 10176-10180.	13.8	26
51	Controlling the number of dendrimers in dendrimicelle nanoconjugates from 1 to more than 100. <i>Soft Matter</i> , 2014, 10, 7337-7345.	2.7	26
52	Towards 4th generation biomaterials: a covalent hybrid polymer-ormoglass architecture. <i>Nanoscale</i> , 2015, 7, 15349-15361.	5.6	26
53	Lanthanide-Dipicolinic Acid Coordination Driven Micelles with Enhanced Stability and Tunable Function. <i>Langmuir</i> , 2015, 31, 12251-12259.	3.5	26
54	A Unique Fourfold Intramolecular Hydrogen Bonding Stabilises the Structure of trans-Bis(2-amino-5,7-dimethyl[1,2,4]triazolo[1,5-a]pyrimidine-N3)aquatrichlororuthenium(III) Monohydrate. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 213-215.	2.0	25

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55	Determination of Kinetic Parameters within a Single Nonisothermal On-Flow Experiment by Nanoliter NMR Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 10547-10555.	6.5	25
56	Lateral interactions at functional monolayers. <i>Journal of Materials Chemistry</i> , 2011, 21, 2428-2444.	6.7	24
57	Obtaining control of cell surface functionalizations via Pre-targeting and Supramolecular host guest interactions. <i>Scientific Reports</i> , 2017, 7, 39908.	3.3	24
58	Size-controlled and water-soluble gold nanoparticles using UV-induced ligand exchange and phase transfer. <i>Chemical Communications</i> , 2018, 54, 13355-13358.	4.1	24
59	An iridium(iii)-caged complex with low oxygen quenching. <i>Chemical Communications</i> , 2010, 46, 6726.	4.1	23
60	Accurate DOSY measure for out-of-equilibrium systems using permuted DOSY (p-DOSY). <i>Journal of Magnetic Resonance</i> , 2015, 258, 12-16.	2.1	23
61	Revealing and tuning the core, structure, properties and function of polymer micelles with lanthanide-coordination complexes. <i>Soft Matter</i> , 2016, 12, 99-105.	2.7	23
62	Size-Sorting and Pattern Formation of Nanoparticle-Loaded Micellar Superstructures in Biconcave Thin Films. <i>ACS Nano</i> , 2017, 11, 11225-11231.	14.6	23
63	Hydrogel Actuators as Responsive Instruments for Cheap Open Technology (HARICOT). <i>Applied Materials Today</i> , 2017, 9, 271-275.	4.3	23
64	Pyrylium monolayers as amino-reactive platform. <i>Chemical Communications</i> , 2010, 46, 4193.	4.1	22
65	Dendrimer-encapsulated nanoparticle-core micelles as a modular strategy for particle-in-a-box-in-a-box nanostructures. <i>Nanoscale</i> , 2017, 9, 18619-18623.	5.6	22
66	Fluorescent imaging of bacterial infections and recent advances made with multimodal radiopharmaceuticals. <i>Clinical and Translational Imaging</i> , 2019, 7, 125-138.	2.1	22
67	Gold nanoparticles embedded in a polymer as a 3D-printable dichroic nanocomposite material. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 442-447.	2.8	21
68	Assembling quantum dots via critical Casimir forces. <i>Solar Energy Materials and Solar Cells</i> , 2016, 158, 154-159.	6.2	20
69	Metal-Free [2 + 2]-Photocycloaddition of (<i>Z</i>)-4-Arylidene-5(4<i>H</i>)-Oxazolones as Straightforward Synthesis of 1,3-Diaminotruaxilic Acid Precursors: Synthetic Scope and Mechanistic Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8370-8381.	6.7	20
70	Reactivity of 2-formylphenylboronic acid toward secondary aromatic amines in amination–reduction reactions. <i>Tetrahedron Letters</i> , 2011, 52, 6639-6642.	1.4	19
71	Self-assembly of oppositely charged polyelectrolyte block copolymers containing short thermoresponsive blocks. <i>Polymer Chemistry</i> , 2019, 10, 3127-3134.	3.9	19
72	Nonlinear Amplification of a Supramolecular Complex at a Multivalent Interface. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 714-719.	13.8	18

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73	Ferrocene-coated CdSe/ZnS quantum dots as electroactive nanoparticles hybrids. <i>Nanotechnology</i> , 2010, 21, 285703.	2.6	17
74	3D biofilm visualization and quantification on granular bioanodes with magnetic resonance imaging. <i>Water Research</i> , 2019, 167, 115059.	11.3	17
75	Fabrication and Visualization of Metal Ion Patterns on Glass by Dip Pen Nanolithography. <i>ChemPhysChem</i> , 2008, 9, 1680-1687.	2.1	16
76	Illumination of Nanoliter-NMR Spectroscopy Chips for Real-Time Photochemical Reaction Monitoring. <i>Analytical Chemistry</i> , 2018, 90, 1542-1546.	6.5	16
77	Gold and silver dichroic nanocomposite in the quest for 3D printing the Lycurgus cup. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 16-23.	2.8	16
78	Structure-independent cross-validation between residual dipolar couplings originating from internal and external orienting media. <i>Journal of Biomolecular NMR</i> , 2002, 22, 365-368.	2.8	14
79	A clear coat from a water soluble precursor: a bioinspired paint concept. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6868-6877.	10.3	14
80	Dendroids, Discrete Covalently Cross-Linked Dendrimer Superstructures. <i>ACS Nano</i> , 2021, 15, 1666-1674.	14.6	14
81	Thiacalix[4]arene derivatives as radium ionophores: a study on the requirements for Ra ²⁺ extraction. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 1993.	2.8	13
82	Supramolecular Interactions at the Picomole Level Studied by ¹⁹ F NMR Spectroscopy in a Microfluidic Chip. <i>Small</i> , 2008, 4, 1293-1295.	10.0	13
83	Supramolecular Virus-Like Nanorods by Coassembly of a Triblock Polypeptide and Reversible Coordination Polymers. <i>Chemistry - A European Journal</i> , 2017, 23, 239-243.	3.3	13
84	Magnetic Resonance Microscopy at Cellular Resolution and Localised Spectroscopy of <i>Medicago truncatula</i> at 22.3 Tesla. <i>Scientific Reports</i> , 2020, 10, 971.	3.3	13
85	Visualizing Resonance Energy Transfer in Supramolecular Surface Patterns of Functionalized Quantum Dot Hosts and Organic Dye Guests by Fluorescence Lifetime Imaging. <i>Small</i> , 2010, 6, 2870-2876.	10.0	12
86	Self-Complementary Recognition of Supramolecular Urea-Aminotriazines in Solution and on Surfaces. <i>Langmuir</i> , 2011, 27, 14272-14278.	3.5	12
87	Hybrid Imaging Labels: Providing the Link Between Mass Spectrometry-Based Molecular Pathology and Theranostics. <i>Theranostics</i> , 2017, 7, 624-633.	10.0	12
88	Synthesis of D-A high-emissive 6-arylalkynyl-1,8-naphthalimides for application in Organic Field-Effect Transistors and optical waveguides. <i>Dyes and Pigments</i> , 2021, 191, 109358.	3.7	12
89	Syntheses of gold and silver dichroic nanoparticles; looking at the Lycurgus cup colors. <i>Chemistry Teacher International</i> , 2021, 3, .	1.7	11
90	Crystallographic and NMR evidence of the unusual N6,N7-didentate chelation of 3-methyladenine coordinated to the cytotoxic \pm -dichlorobis(2-phenylazopyridine)ruthenium(II) complex. <i>Dalton Transactions RSC</i> , 2002, , 2809.	2.3	10

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91	An activatable, polarity dependent, dual-luminescent imaging agent with a long luminescence lifetime. <i>Chemical Communications</i> , 2014, 50, 9733-9736.	4.1	10
92	Cyclodextrin-based complex coacervate core micelles with tuneable supramolecular host-guest, metal-to-ligand and charge interactions. <i>Soft Matter</i> , 2018, 14, 9542-9549.	2.7	10
93	Sorting of Molecular Building Blocks from Solution to Surface. <i>Journal of the American Chemical Society</i> , 2018, 140, 8162-8171.	13.7	10
94	Regulation of Plasmodium sporozoite motility by formulation components. <i>Malaria Journal</i> , 2019, 18, 155.	2.3	10
95	Imidazolide monolayers for reactive microcontact printing. <i>Journal of Materials Chemistry</i> , 2008, 18, 4959.	6.7	9
96	Ternary supramolecular quantum-dot network flocculation for selective lectin detection. <i>Nano Research</i> , 2016, 9, 1904-1912.	10.4	9
97	Manipulating and monitoring nanoparticles in micellar thin film superstructures. <i>Nature Communications</i> , 2018, 9, 5207.	12.8	9
98	Nanoparticles reveal Extreme Size-Sorting and Morphologies in Complex Coacervate Superstructures. <i>Scientific Reports</i> , 2018, 8, 13820.	3.3	9
99	Structure-Photoluminescence Quenching Relationships of Iridium(III)-Tris(phenylpyridine) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1025-1037.	2.0	8
100	Dendrimicelles with pH-controlled aggregation number of core-dendrimers and stability. <i>Soft Matter</i> , 2020, 16, 7893-7897.	2.7	8
101	Oxidant-responsive ferrocene-based cyclodextrin complex coacervate core micelles. <i>Supramolecular Chemistry</i> , 2020, 32, 30-38.	1.2	7
102	Response of metal-coordination-based polyelectrolyte complex micelles to added ligands and metals. <i>Soft Matter</i> , 2020, 16, 2953-2960.	2.7	7
103	Ligands Rock & Roll: Stepwise Twisting of Twocis-Coordinated Lopsided N-Heterocycles in an Octahedral Bis(2-phenylazopyridine)-Ruthenium(II) Complex with Seven Atropisomers. <i>Chemistry - A European Journal</i> , 2005, 11, 1325-1340.	3.3	6
104	An Open Source Image Processing Method to Quantitatively Assess Tissue Growth after Non-Invasive Magnetic Resonance Imaging in Human Bone Marrow Stromal Cell Seeded 3D Polymeric Scaffolds. <i>PLoS ONE</i> , 2014, 9, e115000.	2.5	6
105	MMP-2/9-Specific Activatable Lifetime Imaging Agent. <i>Sensors</i> , 2015, 15, 11076-11091.	3.8	6
106	Covalently bound monolayer patterns obtained by plasma etching on glass surfaces. <i>Chemical Communications</i> , 2019, 55, 7667-7670.	4.1	5
107	Assessing spatial resolution, acquisition time and signal-to-noise ratio for commercial microimaging systems at 14.1, 17.6 and 22.3ÅT. <i>Journal of Magnetic Resonance</i> , 2020, 316, 106770.	2.1	5
108	Fractionation platform for target identification using off-line directed two-dimensional chromatography, mass spectrometry and nuclear magnetic resonance. <i>Analytica Chimica Acta</i> , 2021, 1142, 28-37.	5.4	5

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109	Multicompartment dendrimicelles with binary, ternary and quaternary core composition. <i>Nanoscale</i> , 2021, 13, 15422-15430.	5.6	5
110	Assembly, Disassembly and Reassembly of Complex Coacervate Core Micelles with Redox-Responsive Supramolecular Cross-Linkers. <i>ChemSystemsChem</i> , 2020, 2, e1900032.	2.6	4
111	Patterning: Strategies for Patterning Biomolecules with Dip-Pen Nanolithography (Small 8/2011). <i>Small</i> , 2011, 7, 982-982.	10.0	3
112	Electron-Induced Dynamics of Heptathioether β -Cyclodextrin Molecules. <i>Small</i> , 2012, 8, 317-322.	10.0	3
113	Covalent monolayer patterns in Microfluidics by Plasma etching Open Technology – COMPLIT. <i>Analyst</i> , 2020, 145, 1629-1635.	3.5	3
114	Experiments@home. <i>Nature Reviews Chemistry</i> , 2021, 5, 365-366.	30.2	3
115	Au ³⁺ -Induced gel network formation of proteins. <i>Soft Matter</i> , 2021, 17, 9682-9688.	2.7	3
116	Hollow protein microparticles formed through cross-linking by an Au ³⁺ initiated redox reaction. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6287-6295.	5.8	3
117	N-MethylbenzimidazoleN-methylbenzimidazolium hexafluorophosphate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o21-o23.	0.2	2
118	2-Amino-4,4'-dihydro-4',7-dimethyl-3H-phenoxazin-3-one as an unexpected product from reduction of 5-methyl-2-nitrophenol. <i>Tetrahedron Letters</i> , 2015, 56, 1060-1062.	1.4	2
119	On-Flow Immobilization of Polystyrene Microspheres on β -Cyclodextrin-Patterned Silica Surfaces through Supramolecular Host-Guest Interactions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36221-36231.	8.0	2
120	Magnetic Detection of the Sentinel Lymph Node in Ex Vivo Tissue with Colorectal Cancer. <i>IFMBE Proceedings</i> , 2010, , 447-449.	0.3	2
121	Energy transfer: Visualizing Resonance Energy Transfer in Supramolecular Surface Patterns of β -CD-Functionalized Quantum Dot Hosts and Organic Dye Guests by Fluorescence Lifetime Imaging (Small 24/2010). <i>Small</i> , 2010, 6, 2869-2869.	10.0	0