

Joao Rodrigues

List of Publications by Year in descending order

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105
papers

5,330
citations

125106

35
h-index

97045

71
g-index

109
all docs

109
docs citations

109
times ranked

8761
citing authors

#	ARTICLE	IF	CITATIONS
1	A smartphone-adaptable fluorescent sensing tag for non-contact and visual monitoring of the freshness of fish. <i>Analyst, The</i> , 2022, 147, 923-931.	1.7	21
2	Dendrimer nanoplatfoms for veterinary medicine applications: A concise overview. <i>Drug Discovery Today</i> , 2022, 27, 1251-1260.	3.2	7
3	Green approaches for the synthesis of metal and metal oxide nanoparticles using microbial and plant extracts. <i>Nanoscale</i> , 2022, 14, 2534-2571.	2.8	149
4	Carbosilane Glycodendrimers for Anticancer Drug Delivery: Synthetic Route, Characterization, and Biological Effect of Glycodendrimer-Doxorubicin Complexes. <i>Biomacromolecules</i> , 2022, 23, 276-290.	2.6	6
5	Polyester Dendrimers Based on Bis-MPA for Doxorubicin Delivery. <i>Biomacromolecules</i> , 2022, 23, 20-33.	2.6	5
6	Dendrimer-Based Nanogels for Cancer Nanomedicine Applications. <i>Bioconjugate Chemistry</i> , 2022, 33, 87-96.	1.8	13
7	Development and challenges of cells- and materials-based tooth regeneration. <i>Engineered Regeneration</i> , 2022, 3, 163-181.	3.0	17
8	Medical applications of biopolymer nanofibers. <i>Biomaterials Science</i> , 2022, 10, 4107-4118.	2.6	16
9	A dual-analytes responsive fluorescent probe for discriminative detection of ClO ⁻ and N ₂ H ₄ in living cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 246, 118953.	2.0	13
10	Detection of Ru potential metallodrug in human urine by MALDI-TOF mass spectrometry: Validation and options to enhance the sensitivity. <i>Talanta</i> , 2021, 222, 121551.	2.9	9
11	Short X ⁺ -N Halogen Bonds With Hexamethylenetetraamine as the Acceptor. <i>Frontiers in Chemistry</i> , 2021, 9, 623595.	1.8	7
12	Engineered non-invasive functionalized dendrimer/dendron-entrapped/complexed gold nanoparticles as a novel class of theranostic (radio)pharmaceuticals in cancer therapy. <i>Journal of Controlled Release</i> , 2021, 332, 346-366.	4.8	29
13	Use of Half-Generation PAMAM Dendrimers (G0.5-G3.5) with Carboxylate End-Groups to Improve the DACHPtCl ₂ and 5-FU Efficacy as Anticancer Drugs. <i>Molecules</i> , 2021, 26, 2924.	1.7	13
14	Gas foaming of electrospun poly(L-lactide-co-caprolactone)/silk fibroin nanofiber scaffolds to promote cellular infiltration and tissue regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 201, 111637.	2.5	41
15	Engineered Fluorescent Carbon Dots and G4-G6 PAMAM Dendrimer Nanohybrids for Bioimaging and Gene Delivery. <i>Biomacromolecules</i> , 2021, 22, 2436-2450.	2.6	25
16	Cytocompatible cellulose nanofibers from invasive plant species <i>Agave americana</i> L. and <i>Ricinus communis</i> L.: a renewable green source of highly crystalline nanocellulose. <i>Journal of Zhejiang University: Science B</i> , 2021, 22, 450-461.	1.3	7
17	Chemically heterogeneous carbon dots enhanced cholesterol detection by MALDI TOF mass spectrometry. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 373-383.	5.0	18
18	First-in-class and best-in-class dendrimer nanoplatfoms from concept to clinic: Lessons learned moving forward. <i>European Journal of Medicinal Chemistry</i> , 2021, 219, 113456.	2.6	22

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19	Coumarin-based Fluorescent Probes for Bioimaging: Recent Applications and Developments. <i>Current Organic Chemistry</i> , 2021, 25, 2142-2154.	0.9	9
20	Polysaccharide-based nanomedicines for cancer immunotherapy: A review. <i>Bioactive Materials</i> , 2021, 6, 3358-3382.	8.6	74
21	A glance over doxorubicin based-nanotherapeutics: From proof-of-concept studies to solutions in the market. <i>Journal of Controlled Release</i> , 2020, 317, 347-374.	4.8	53
22	Glycodendron/pyropheophorbide-a (Ppa)-functionalized hyaluronic acid as a nanosystem for tumor photodynamic therapy. <i>Carbohydrate Polymers</i> , 2020, 247, 116749.	5.1	58
23	Dendrimers toward Translational Nanotherapeutics: Concise Key Step Analysis. <i>Bioconjugate Chemistry</i> , 2020, 31, 2060-2071.	1.8	38
24	New insights into the blue intrinsic fluorescence of oxidized PAMAM dendrimers considering their use as bionanomaterials. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10314-10326.	2.9	16
25	A Review on Thermoplastic or Thermosetting Polymeric Matrices Used in Polymeric Composites Manufactured with Banana Fibers from the Pseudostem. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3023.	1.3	4
26	Superstructured poly(amidoamine) dendrimer-based nanoconstructs as platforms for cancer nanomedicine: A concise review. <i>Coordination Chemistry Reviews</i> , 2020, 421, 213463.	9.5	57
27	Polyethylenimine Nanogels Incorporated with Ultrasmall Iron Oxide Nanoparticles and Doxorubicin for MR Imaging-Guided Chemotherapy of Tumors. <i>Bioconjugate Chemistry</i> , 2020, 31, 907-915.	1.8	38
28	Chemical Sensors towards Environmental Toxic Molecule Monitoring: Fluorescent Probes for Detection of Thiophenol. <i>General Chemistry</i> , 2020, 6, 190027-190027.	0.6	0
29	A selective cascade reaction-based probe for colorimetric and ratiometric fluorescence detection of benzoyl peroxide in food and living cells. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5775-5781.	2.9	26
30	Zwitterion-functionalized dendrimer-entrapped gold nanoparticles for serum-enhanced gene delivery to inhibit cancer cell metastasis. <i>Acta Biomaterialia</i> , 2019, 99, 320-329.	4.1	71
31	Exploration of biomedical dendrimer space based on in-vitro physicochemical parameters: key factor analysis (Part 1). <i>Drug Discovery Today</i> , 2019, 24, 1176-1183.	3.2	32
32	Exploration of biomedical dendrimer space based on in-vivo physicochemical parameters: Key factor analysis (Part 2). <i>Drug Discovery Today</i> , 2019, 24, 1184-1192.	3.2	29
33	New anionic poly(alkylideneamine) dendrimers as microbicide agents against HIV-1 infection. <i>Nanoscale</i> , 2019, 11, 9679-9690.	2.8	33
34	A fast responsive chromogenic and near-infrared fluorescence lighting-up probe for visual detection of toxic thiophenol in environmental water and living cells. <i>Talanta</i> , 2019, 201, 111-118.	2.9	27
35	In silico search, chemical characterization and immunogenic evaluation of amino-terminated G4-PAMAM-HIV peptide complexes using three-dimensional models of the HIV-1 gp120 protein. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 177, 77-93.	2.5	23
36	Recent therapeutic applications of the theranostic principle with dendrimers in oncology. <i>Science China Materials</i> , 2018, 61, 1367-1386.	3.5	26

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37	Present drug-likeness filters in medicinal chemistry during the hit and lead optimization process: how far can they be simplified?. <i>Drug Discovery Today</i> , 2018, 23, 605-615.	3.2	77
38	Mechanical Properties of Alumina Nanofilled Polymeric Composites Cured with DDSA and MNA. <i>Fibers and Polymers</i> , 2018, 19, 460-470.	1.1	3
39	Laponite®: A key nanoplatform for biomedical applications?. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2407-2420.	1.7	210
40	Dendrimers in combination with natural products and analogues as anti-cancer agents. <i>Chemical Society Reviews</i> , 2018, 47, 514-532.	18.7	156
41	Bench-to-bedside translation of dendrimers: Reality or utopia? A concise analysis. <i>Advanced Drug Delivery Reviews</i> , 2018, 136-137, 73-81.	6.6	47
42	PAMAM dendrimers: blood-brain barrier transport and neuronal uptake after focal brain ischemia. <i>Journal of Controlled Release</i> , 2018, 291, 65-79.	4.8	65
43	Multifunctional Dendrimer-Entrapped Gold Nanoparticles Conjugated with Doxorubicin for pH-Responsive Drug Delivery and Targeted Computed Tomography Imaging. <i>Langmuir</i> , 2018, 34, 12428-12435.	1.6	79
44	Poly(alkylideneimine) Dendrimers Functionalized with the Organometallic Moiety $[Ru(\eta^5-C_5H_5)(PPh_3)_2]^+$ as Promising Drugs Against Cisplatin-Resistant Cancer Cells and Human Mesenchymal Stem Cells. <i>Molecules</i> , 2018, 23, 1471.	1.7	32
45	The influence of curing agents in the impact properties of epoxy resin nanocomposites. <i>Composite Structures</i> , 2017, 174, 26-32.	3.1	19
46	Binding free energy calculations using MMPB/GBSA approaches for PAMAM-G4-drug complexes at neutral, basic and acid pH conditions. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 76, 330-341.	1.3	16
47	Laponite-based nanohybrids for enhanced solubility of dexamethasone and osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2017, 259, e121-e122.	4.8	1
48	Principal Physicochemical Methods Used to Characterize Dendrimer Molecule Complexes Used as Genetic Therapy Agents, Nanovaccines or Drug Carriers. <i>Current Pharmaceutical Design</i> , 2017, 23, 3076-3083.	0.9	3
49	Electrodeposition of polyaniline on self-assembled monolayers on graphite for the voltammetric detection of iron(II). <i>Materials Chemistry and Physics</i> , 2016, 184, 261-268.	2.0	11
50	Design, synthesis and biological evaluation of Arylpiperazine-based novel Phthalimides: Active inducers of testicular germ cell apoptosis. <i>Journal of Chemical Sciences</i> , 2016, 128, 1245-1263.	0.7	5
51	Gene delivery using dendrimer/pDNA complexes immobilized in electrospun fibers using the Layer-by-Layer technique. <i>RSC Advances</i> , 2016, 6, 97116-97128.	1.7	17
52	Compound high-quality criteria: a new vision to guide the development of drugs, current situation. <i>Drug Discovery Today</i> , 2016, 21, 573-584.	3.2	32
53	Fine tuning of the pH-sensitivity of laponite®-doxorubicin nanohybrids by polyelectrolyte multilayer coating. <i>Materials Science and Engineering C</i> , 2016, 60, 348-356.	3.8	42
54	Why and how have drug discovery strategies in pharma changed? What are the new mindsets?. <i>Drug Discovery Today</i> , 2016, 21, 239-249.	3.2	62

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55	Effect of irregular shaped nanoalumina on the enhancement of mechanical properties of epoxy resin nanocomposites using DDM as hardener. <i>Composites Part B: Engineering</i> , 2016, 84, 17-24.	5.9	22
56	PAMAM Dendrimer/pDNA Functionalized-Magnetic Iron Oxide Nanoparticles for Gene Delivery. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 1370-1384.	0.5	45
57	Editorial (Thematic Issue: Self-Assembled Organic Nanostructures in Medicinal Chemistry: Advances) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	1.0	0
58	Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(<sc>ii</sc>) rods. <i>Dalton Transactions</i> , 2015, 44, 4003-4015.	1.6	5
59	Thermo/redox/pH-triple sensitive poly(N-isopropylacrylamide-co-acrylic acid) nanogels for anticancer drug delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4221-4230.	2.9	119
60	Octadecyl functionalized core-shell magnetic silica nanoparticle as a powerful nanocomposite sorbent to extract urinary volatile organic metabolites. <i>Journal of Chromatography A</i> , 2015, 1393, 18-25.	1.8	23
61	Biodegradable Polymer Nanogels for Drug/Nucleic Acid Delivery. <i>Chemical Reviews</i> , 2015, 115, 8564-8608.	23.0	401
62	RGD peptide-modified multifunctional dendrimer platform for drug encapsulation and targeted inhibition of cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 82-89.	2.5	96
63	Self-Assembled Peptide Nanoarchitectures: Applications and Future Aspects. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 1268-1289.	1.0	16
64	Antitumor Efficacy of Doxorubicin-Loaded Laponite/Alginate Hybrid Hydrogels. <i>Macromolecular Bioscience</i> , 2014, 14, 110-120.	2.1	48
65	Dendrimer-Assisted Formation of Fluorescent Nanogels for Drug Delivery and Intracellular Imaging. <i>Biomacromolecules</i> , 2014, 15, 492-499.	2.6	76
66	An exploratory study to evaluate the potential of nanohydroxyapatite as a powerful sorbent for efficient extraction of volatile organic metabolites, potential biomarkers of cancer. <i>Analytical Methods</i> , 2014, 6, 6051.	1.3	3
67	Amphiphilic Polymer-Mediated Formation of Laponite-Based Nanohybrids with Robust Stability and pH Sensitivity for Anticancer Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16687-16695.	4.0	87
68	pH-sensitive Laponite®/doxorubicin/alginate nanohybrids with improved anticancer efficacy. <i>Acta Biomaterialia</i> , 2014, 10, 300-307.	4.1	91
69	Redox-Responsive Alginate Nanogels with Enhanced Anticancer Cytotoxicity. <i>Biomacromolecules</i> , 2013, 14, 3140-3146.	2.6	153
70	A convenient route for the preparation of the monohydride catalyst trans-[RuCl(H)(dppe)2] (dppe=Ph2PCH2CH2PPh2): Improved synthesis and crystal structure. <i>Inorganic Chemistry Communication</i> , 2013, 29, 123-127.	1.8	3
71	Divergent Route to the Preparation of Hybrid Pt-Fe 2,4,6-Tris(4-ethynyl)phenyl-1,3,5-triazine Metallo-dendrimers for Nonlinear Optics. <i>Organometallics</i> , 2013, 32, 406-414.	1.1	25
72	cis,cis,cis-(Acetato- η^2 O, η^2)bis[1,2-bis(diphenylphosphanyl)ethane- η^2 P, η^2]ruthenium(II) 0.75-trifluoromethanesulfonate 0.25-chloride. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m226-m226.	0.2	0

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73	Injectable and biodegradable hydrogels: gelation, biodegradation and biomedical applications. <i>Chemical Society Reviews</i> , 2012, 41, 2193-2221.	18.7	1,190
74	Insight into the role of N,N-dimethylaminoethyl methacrylate (DMAEMA) conjugation onto poly(ethylenimine): cell viability and gene transfection studies. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2967-2980.	1.7	21
75	Gene delivery using biodegradable polyelectrolyte microcapsules prepared through the layer-by-layer technique. <i>Biotechnology Progress</i> , 2012, 28, 1088-1094.	1.3	23
76	Calcium phosphate-mediated gene delivery using simulated body fluid (SBF). <i>International Journal of Pharmaceutics</i> , 2012, 434, 199-208.	2.6	36
77	The Effect of PAMAM Dendrimers on Mesenchymal Stem Cell Viability and Differentiation. <i>Current Medicinal Chemistry</i> , 2012, 19, 4969-4975.	1.2	12
78	How Do Nitriles Compare with Isoelectronic Alkynyl Groups in the Electronic Communication between Iron Centers Bridged by Phenylenebis- and -tris(nitrile) Ligands? An Electronic and Crystal-Structure Study. <i>Inorganic Chemistry</i> , 2011, 50, 114-124.	1.9	18
79	Gene Delivery into Mesenchymal Stem Cells: A Biomimetic Approach Using RGD Nanoclusters Based on Poly(amidoamine) Dendrimers. <i>Biomacromolecules</i> , 2011, 12, 472-481.	2.6	80
80	Poly(alkylidenamines) dendrimers as scaffolds for the preparation of low-generation ruthenium based metallodendrimers. <i>New Journal of Chemistry</i> , 2011, 35, 1938.	1.4	21
81	pH sensitive Laponite/alginate hybrid hydrogels: swelling behaviour and release mechanism. <i>Soft Matter</i> , 2011, 7, 6231.	1.2	74
82	Injectable hybrid laponite/alginate hydrogels for sustained release of methylene blue. <i>Journal of Controlled Release</i> , 2011, 152, e55-e57.	4.8	8
83	Non-Viral Gene Delivery to Mesenchymal Stem Cells: Methods, Strategies and Application in Bone Tissue Engineering and Regeneration. <i>Current Gene Therapy</i> , 2011, 11, 46-57.	0.9	132
84	Functionalization of poly(amidoamine) dendrimers with hydrophobic chains for improved gene delivery in mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2010, 144, 55-64.	4.8	176
85	Preparation and Characterization of Novel Poly(alkylidenamine) Nitrile Ruthenium Metallodendrimers. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1729-1735.	1.0	13
86	Receptor-Mediated Gene Delivery Using PAMAM Dendrimers Conjugated with Peptides Recognized by Mesenchymal Stem Cells. <i>Molecular Pharmaceutics</i> , 2010, 7, 763-774.	2.3	100
87	Three 2,5-dialkoxy-1,4-diethynylbenzene derivatives. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2008, 64, o33-o36.	0.4	1
88	Visible-Light Photolytic Synthesis of Multinuclear and Dendritic Iron-Nitrile Cationic Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 4421-4428.	1.9	14
89	4,4'-[Thiophene-2,5-diylbis(ethyne-2,1-diyl)]dibenzonitrile. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o765-o766.	0.2	0
90	A Trinuclear Aqua Cyano-Bridged Ruthenium Complex $[\{(\eta^5\text{-C}_5\text{H}_5)(\text{PPh}_3)_2\text{Ru}(\eta^4\text{-CN})\}_2\text{RuCl}_2(\text{PPh}_3)(\text{H}_2\text{O})]\text{PF}_6$: Synthesis, Characterization and Crystal Structure. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1920-1924.	1.0	7

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91	Syntheses and characterization of novel ruthenium complexes based on 1,3-dicyanobenzene. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 5263-5271.	0.8	4
92	From Simple Monopyridine Clusters [Mo ₆ Br ₁₃ (Py-R)] [n-Bu ₄ N] and Hexapyridine Clusters [Mo ₆ X ₈ (Py-R) ₆][OSO ₂ CF ₃] ₄ (X = Br or I) to Cluster-Cored Organometallic Stars, Dendrons, and Dendrimers. <i>Inorganic Chemistry</i> , 2006, 45, 1156-1167.	1.9	56
93	cis-Aquabis[bis(diphenylphosphino)ethane- $\hat{\nu}$ 2 P, P $\hat{\alpha}$ ϵ 2]chlororuthenium(II) hexafluorophosphate dichloromethane sesquisolvate hemihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m699-m701.	0.2	2
94	cis-[Bis(diphenylphosphino)ethane- $\hat{\nu}$ 2 P, P $\hat{\alpha}$ ϵ 2]dichlororuthenium(II) dichloromethane disolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m1154-m1155.	0.2	2
95	cis-Diazido[bis(diphenylphosphino)methane- $\hat{\nu}$ 2 P, P $\hat{\alpha}$ ϵ 2]ruthenium(II) dichloromethane 0.42-solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m2052-m2053.	0.2	0
96	trans-Bis[bis(diphenylphosphino)methane- $\hat{\nu}$ 2 P, P $\hat{\alpha}$ ϵ 2]dichlororuthenium(II) dichloromethane disolvate acetone hemisolvate hemihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m3594-m3596.	0.2	2
97	Ruthenium Metallodendrimers Based on Nitrile-Functionalized Poly(alkylidene imine)s. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 47-50.	1.0	10
98	Synthesis, characterization and crystal structure of the bimetallic cyano-bridged [($\hat{\nu}$ -5-C ₅ H ₅)(PPh ₃) ₂ Ru($\hat{\nu}$ -4-CN)Ru(PPh ₃) ₂ ($\hat{\nu}$ -5-C ₅ H ₅)] [PF ₆]. <i>Inorganica Chimica Acta</i> , 2005, 358, 2482-2488.	1.2	18
99	Mo ₆ Br ₈ -Cluster-cored organometallic stars and dendrimers. <i>Comptes Rendus Chimie</i> , 2005, 8, 1789-1797.	0.2	31
100	Organometallic Syntheses of Hexa- and Nonanitrile Ligands and Their Ruthenium Complexes. <i>Organometallics</i> , 2004, 23, 4271-4276.	1.1	11
101	Molecular structure and crystal packing of CpMRisonitriles (M= Ru, Fe; R= phosphines and TMEDA). How to obtain new solids for NLO. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2004, 60, s302-s302.	0.3	0
102	Second harmonic generation of $\hat{\nu}$ -5-monocyclopentadienyl ruthenium p-benzonitrile derivatives by Kurtz powder technique. Crystal and molecular structure determinations of [Ru($\hat{\nu}$ -5-C ₅ H ₅)(+)-DIOP)(p-NCC ₆ H ₄ NO ₂)] [X], X=PF ₆ $\hat{\nu}$, CF ₃ SO ₃ $\hat{\nu}$ and [Ru($\hat{\nu}$ -5-C ₅ H ₅)(+)-DIOP)(NCCH ₃)] [PF ₆]. <i>Journal of Organometallic Chemistry</i> , 2001, 632, 133-144.	0.8	28
103	Hyper-Rayleigh scattering study of $\hat{\nu}$ -5-monocyclopentadienyl $\hat{\nu}$ metal complexes for second order non-linear optical materials. <i>Journal of Materials Chemistry</i> , 1998, 8, 925-930.	6.7	56
104	Third-harmonic generation in organometallic ruthenium(II) derivatives containing coordinated p-substituted benzonitriles. <i>Journal of Materials Chemistry</i> , 1995, 5, 1861-1865.	6.7	20
105	Synthesis and characterization of $\hat{\nu}$ -5-monocyclopentadienyl (p-nitrobenzonitrile)ruthenium(II) salts: Second harmonic generation powder efficiencies. <i>Journal of Organometallic Chemistry</i> , 1994, 475, 241-245.	0.8	38