

Jan Kotek

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97
papers

3,342
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33
h-index

56
g-index

103
ext. papers

3,575
ext. citations

4.3
avg, IF

4.78
L-index

#	Paper	IF	Citations
97	Gadolinium(III) complexes as MRI contrast agents: ligand design and properties of the complexes. <i>Dalton Transactions</i> , 2008 , 3027-47	4.3	410
96	Complexes of tetraazacycles bearing methylphosphinic/phosphonic acid pendant arms with copper(II), zinc(II) and lanthanides(III). A comparison with their acetic acid analogues. <i>Coordination Chemistry Reviews</i> , 2001 , 216-217, 287-312	23.2	208
95	A triazacyclononane-based bifunctional phosphinate ligand for the preparation of multimeric ⁶⁸ Ga tracers for positron emission tomography. <i>Chemistry - A European Journal</i> , 2010 , 16, 7174-85	4.8	122
94	A bisphosphonate monoamide analogue of DOTA: a potential agent for bone targeting. <i>Journal of the American Chemical Society</i> , 2005 , 127, 16477-85	16.4	121
93	Gallium(III) complexes of DOTA and DOTA-monoamide: kinetic and thermodynamic studies. <i>Inorganic Chemistry</i> , 2010 , 49, 10960-9	5.1	104
92	Lanthanide(III) complexes of a mono(methylphosphonate) analogue of H ₄ dota: the influence of protonation of the phosphonate moiety on the TSAP/SAP isomer ratio and the water exchange rate. <i>Chemistry - A European Journal</i> , 2005 , 11, 2373-84	4.8	102
91	Optical imaging of localized chemical events using programmable diamond quantum nanosensors. <i>Nature Communications</i> , 2017 , 8, 14701	17.4	94
90	Mn(2+) complexes with pyridine-containing 15-membered macrocycles: thermodynamic, kinetic, crystallographic, and (1)H/(17)O relaxation studies. <i>Inorganic Chemistry</i> , 2010 , 49, 3224-38	5.1	89
89	Lanthanide(III) complexes of novel mixed carboxylic-phosphorus acid derivatives of diethylenetriamine: a step towards more efficient MRI contrast agents. <i>Chemistry - A European Journal</i> , 2003 , 9, 5899-915	4.8	82
88	Synthesis of a bifunctional monophosphinic acid DOTA analogue ligand and its lanthanide(III) complexes. A gadolinium(III) complex endowed with an optimal water exchange rate for MRI applications. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 112-7	3.9	81
87	Crystal structures of lanthanide(III) complexes with cyclen derivative bearing three acetate and one methylphosphonate pendants. <i>Inorganic Chemistry</i> , 2005 , 44, 5591-9	5.1	76
86	Thermodynamic study of lanthanide(III) complexes with bifunctional monophosphinic acid analogues of H ₄ dota and comparative kinetic study of yttrium(III) complexes. <i>Dalton Transactions</i> , 2007 , 535-49	4.3	75
85	Gadolinium(III) complexes of mono- and diethyl esters of monophosphonic acid analogue of DOTA as potential MRI contrast agents: solution structures and relaxometric studies. <i>Dalton Transactions</i> , 2007 , 493-501	4.3	68
84	High thermodynamic stability and extraordinary kinetic inertness of copper(II) complexes with 1,4,8,11-tetraazacyclotetradecane-1,8-bis(methylphosphonic acid): example of a rare isomerism between kinetically inert penta- and hexacoordinated copper(II) complexes. <i>Chemistry - A European Journal</i> , 2003 , 9, 233-48	4.8	68
83	A gadolinium(III) complex of a carboxylic-phosphorus acid derivative of diethylenetriamine covalently bound to inulin, a potential macromolecular MRI contrast agent. <i>Bioconjugate Chemistry</i> , 2004 , 15, 881-9	6.3	65
82	Mn ²⁺ complexes with 12-membered pyridine based macrocycles bearing carboxylate or phosphonate pendant arm: crystallographic, thermodynamic, kinetic, redox, and ¹ H/ ¹⁷ O relaxation studies. <i>Inorganic Chemistry</i> , 2011 , 50, 12785-801	5.1	62
81	Aminoalkylbis(phosphonates): Their Complexation Properties in Solution and in the Solid State. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 333-344	2.3	60

80	Thermodynamic and Kinetic Studies of Lanthanide(III) Complexes with H5do3ap (1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic-10-(methylphosphonic Acid)), a Monophosphonate Analogue of H4dota. <i>Collection of Czechoslovak Chemical Communications</i> , 2005 , 70, 1909-1942		59
79	Lanthanide(III) Complexes of Phosphorus Acid Analogues of H4DOTA as Model Compounds for the Evaluation of the Second-Sphere Hydration. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 119-136 ^{2,3}		52
78	Thermodynamic and kinetic study of scandium(III) complexes of DTPA and DOTA: a step toward scandium radiopharmaceuticals. <i>Chemistry - A European Journal</i> , 2014 , 20, 7944-55	4.8	44
77	Cyclodextrin-based bimodal fluorescence/MRI contrast agents: an efficient approach to cellular imaging. <i>Chemistry - A European Journal</i> , 2010 , 16, 10094-102	4.8	44
76	Lanthanide(III) complexes of 4,10-bis(phosphonomethyl)-1,4,7,10-tetraazacyclododecane-1,7-diacetic acid (trans-H6do2a2p) in solution and in the solid state: structural studies along the series. <i>Chemistry - A European Journal</i> , 2010 , 16, 8446-65	4.8	41
75	Phosphinic derivative of DTPA conjugated to a G5 PAMAM dendrimer: an ¹⁷⁰ and ¹ H relaxation study of its Gd(III) complex. <i>Dalton Transactions</i> , 2006 , 3399-406	4.3	41
74	Phosphonate-titanium dioxide assemblies: platform for multimodal diagnostic-therapeutic nanopores. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 5185-94	8.3	40
73	Cyclam (1,4,8,11-tetraazacyclotetradecane) with one methylphosphonate pendant arm: a new ligand for selective copper(II) binding. <i>Dalton Transactions</i> , 2005 , 2908-15	4.3	40
72	Lanthanide(III) complexes of pyridine-N-oxide analogues of DOTA in solution and in the solid state. A new kind of isomerism in complexes of DOTA-like ligands. <i>Inorganic Chemistry</i> , 2009 , 48, 466-75	5.1	39
71	Self-Assembled Thermoresponsive Polymeric Nanogels for F MR Imaging. <i>Biomacromolecules</i> , 2018 , 19, 3515-3524	6.9	38
70	Mn ²⁺ complexes of 1-oxa-4,7-diazacyclononane based ligands with acetic, phosphonic and phosphinic acid pendant arms: stability and relaxation studies. <i>Dalton Transactions</i> , 2011 , 40, 10131-46	4.3	36
69	Pyridine-N-oxide analogues of DOTA and their gadolinium(III) complexes endowed with a fast water exchange on the square-antiprismatic isomer. <i>Inorganic Chemistry</i> , 2009 , 48, 455-65	5.1	36
68	Three in one: TSA, TSA δ and SA units in one crystal structure of a yttrium(III) complex with a monophosphinated H4dota analogue. <i>Inorganic Chemistry</i> , 2006 , 45, 3097-102	5.1	36
67	Dual imaging probes for magnetic resonance imaging and fluorescence microscopy based on perovskite manganite nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 157-164		34
66	Gd(III) complex of a monophosphinate-bis(phosphonate) DOTA analogue with a high relaxivity; Lanthanide(III) complexes for imaging and radiotherapy of calcified tissues. <i>Dalton Transactions</i> , 2009 , 3204-14	4.3	34
65	. <i>European Journal of Organic Chemistry</i> , 2001 , 2001, 3899-3901	3.2	34
64	Bis(methylphosphonic Acid) Derivatives of 1,4,8,11-Tetraazacyclotetradecane (Cyclam). Synthesis, Crystal and Molecular Structures, and Solution Properties. <i>Collection of Czechoslovak Chemical Communications</i> , 2000 , 65, 1289-1316		33
63	Anion recognition by alpha-arylazo-N-confused calix[4]pyrroles. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2921-3	3.9	32

62	Crystal Structures and Reactivity of 3a,5a,8a,10a-Tetraazaperhydropyrene Derivatives. An Alternative Approach to Selective Nitrogen Alkylation of 1,4,8,11-Tetraazacyclotetradecane (Cyclam). <i>Collection of Czechoslovak Chemical Communications</i> , 2000 , 65, 243-266		31
61	Study of Thermodynamic and Kinetic Stability of Transition Metal and Lanthanide Complexes of DTPA Analogues with a Phosphorus Acid Pendant Arm. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 1976-1986	2.3	30
60	Gadolinium complexes of monophosphinic acid DOTA derivatives conjugated to cyclodextrin scaffolds: efficient MRI contrast agents for higher magnetic fields. <i>Dalton Transactions</i> , 2012 , 41, 13509-13519	4.9	29
59	Lanthanide(III) complexes that contain a self-immolative arm: potential enzyme responsive contrast agents for magnetic resonance imaging. <i>Chemistry - A European Journal</i> , 2012 , 18, 1408-18	4.8	27
58	Metal Complexes of 4,11-Dimethyl-1,4,8,11-tetraazacyclotetradecane-1,8-bis(methylphosphonic acid) I Thermodynamic and Formation/Decomplexation Kinetic Studies. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 3577-3592	2.3	27
57	Cyclam Derivatives with a Bis(phosphinate) or a Phosphinato-Phosphonate Pendant Arm: Ligands for Fast and Efficient Copper(II) Complexation for Nuclear Medical Applications. <i>Inorganic Chemistry</i> , 2015 , 54, 11751-66	5.1	26
56	Modification of Nanocrystalline TiO ₂ with Phosphonate- and Bis(phosphonate)-Bearing Macrocyclic Complexes: Sorption and Stability Studies. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 1981-1989	2.3	26
55	Novel polymeric metal complexes of calix[4]arene-11,23-diphosphonic acid: synthesis and structure determination. <i>Inorganica Chimica Acta</i> , 2002 , 335, 27-35	2.7	26
54	Thermodynamic, kinetic and solid-state study of divalent metal complexes of 1,4,8,11-tetraazacyclotetradecane (cyclam) bearing two trans (1,8-)methylphosphonic acid pendant arms. <i>Dalton Transactions</i> , 2006 , 5184-97	4.3	25
53	Gadolinium- and manganese-based contrast agents with fluorescent probes for both magnetic resonance and fluorescence imaging of pancreatic islets: a comparative study. <i>ChemMedChem</i> , 2013 , 8, 614-21	3.7	24
52	Paramagnetic F Relaxation Enhancement in Nickel(II) Complexes of N-Trifluoroethyl Cyclam Derivatives and Cell Labeling for F MRI. <i>Inorganic Chemistry</i> , 2017 , 56, 13337-13348	5.1	23
51	NOTA Complexes with Copper(II) and Divalent Metal Ions: Kinetic and Thermodynamic Studies. <i>Inorganic Chemistry</i> , 2018 , 57, 3061-3072	5.1	22
50	Coordination properties of cyclam (1,4,8,11-tetraazacyclotetradecane) endowed with two methylphosphonic acid pendant arms in the 1,4-positions. <i>Dalton Transactions</i> , 2008 , 5378-86	4.3	22
49	The cis/trans-isomerism on cobalt(III) complexes with 1,4,8,11-tetraazacyclotetradecane-1,8-bis(methylphosphonic acid). <i>Inorganica Chimica Acta</i> , 2001 , 317, 324-330	2.7	21
48	Synthesis and coordination properties of palladium(II) and platinum(II) complexes with phosphonated triphenylphosphine derivatives. <i>Journal of Organometallic Chemistry</i> , 2006 , 691, 2409-2423	2.3	20
47	1-hydroxy-1,1-bis(H-phosphinates): Synthesis, stability, and sorption properties. <i>Heteroatom Chemistry</i> , 2012 , 23, 195-201	1.2	19
46	Nickel(II) complexes of N-CH ₂ CF ₃ cyclam derivatives as contrast agents for (¹⁹ F) magnetic resonance imaging. <i>Dalton Transactions</i> , 2016 , 45, 474-8	4.3	18
45	Neuro-inflammatory effects of photodegradative products of bilirubin. <i>Scientific Reports</i> , 2018 , 8, 7444	4.9	18

44	Unsymmetrically substituted side-bridged cyclam derivatives and their Cu(II) and Zn(II) complexes. <i>New Journal of Chemistry</i> , 2008 , 32, 496-504	3.6	18
43	Ternary Complexes of Zinc(II), Cyclen and Pyridinecarboxylic Acids. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 3974-3987	2.3	18
42	Bifunctional cyclam-based ligands with phosphorus acid pendant moieties for radiocopper separation: thermodynamic and kinetic studies. <i>Chemistry - A European Journal</i> , 2015 , 21, 4671-87	4.8	17
41	Lanthanide(III) complexes of aminoethyl-DO3A as PARACEST contrast agents based on decoordination of the weakly bound amino group. <i>Dalton Transactions</i> , 2013 , 42, 15735-47	4.3	17
40	¹ H NMR relaxivity of aqueous suspensions of titanium dioxide nanoparticles coated with a gadolinium(III) chelate of a DOTA-monoamide with a phenylphosphonate pendant arm. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1494		17
39	Towards MRI contrast agents responsive to Ca(II) and Mg(II) ions: metal-induced oligomerization of dota-bisphosphonate conjugates. <i>Contrast Media and Molecular Imaging</i> , 2010 , 5, 294-6	3.2	17
38	Unusual cis/trans Isomerism in Octahedral Nickel(II) Complexes with 1,4,8,11-Tetraazacyclotetradecane-1,8-bis(methylphosphonic Acid) as a Ligand. <i>Collection of Czechoslovak Chemical Communications</i> , 2001 , 66, 363-381		15
37	Methylene-bis[(aminomethyl)phosphinic acids]: synthesis, acid-base and coordination properties. <i>Dalton Transactions</i> , 2013 , 42, 2414-22	4.3	13
36	Eu(III) Complex with DO3A-amino-phosphonate Ligand as a Concentration-Independent pH-Responsive Contrast Agent for Magnetic Resonance Spectroscopy (MRS). <i>Inorganic Chemistry</i> , 2017 , 56, 2078-2091	5.1	12
35	Lanthanide(III) complexes of monophosphinate/monophosphonate DOTA-analogues: effects of the substituents on the formation rate and radiolabelling yield. <i>Dalton Transactions</i> , 2018 , 47, 13006-13015	4.3	11
34	Application of Dipon, (1,4,8,11-Tetraazacyclotetradecane-4,11-bis(methylphosphonic acid) as Selective Complexing Agent for Determination of Copper(II). <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2004 , 49, 11-15		11
33	Selective Kinetic Determination of Cu ²⁺ with Tetraazamacrocyclic Bis(Methylphosphonate) Ligand (Dipon). <i>Mikrochimica Acta</i> , 2004 , 148, 21	5.8	11
32	Aminoalkyl-1,1-bis(phosphinic acids): Stability, Acid-Base, and Coordination Properties. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 4357-4368	2.3	10
31	Tris(phosphonomethyl) Cyclen Derivatives: Synthesis, Acid-Base Properties and Complexation Studies with Cu ²⁺ and Zn ²⁺ Ions. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2533-2547	2.3	10
30	Ln(III)-complexes of a DOTA analogue with an ethylenediamine pendant arm as pH-responsive PARACEST contrast agents. <i>Dalton Transactions</i> , 2016 , 45, 3486-96	4.3	9
29	Selective Protection of 1,4,8,11-Tetraazacyclotetradecane (Cyclam) in Position 1,4 with the Phosphonothioyl Group and Synthesis of a Cyclam-1,4-bis(methylphosphonic Acid). Crystal Structures of Several Cyclic Phosphonothioamides. <i>Collection of Czechoslovak Chemical Communications</i> , 2001 , 66, 227-247		8
28	Optimization of the selectivity and rate of copper radioisotope complexation: formation and dissociation kinetic studies of 1,4,8-trimethylcyclam-based ligands with different coordinating pendant arms. <i>New Journal of Chemistry</i> , 2018 , 42, 11908-11929	3.6	8
27	Lanthanide Complexes of DO3A-(Dibenzylamino)methylphosphinate: Effect of Protonation of the Dibenzylamino Group on the Water-Exchange Rate and the Binding of Human Serum Albumin. <i>Inorganic Chemistry</i> , 2019 , 58, 5196-5210	5.1	7

26	Paramagnetic Cobalt(II) Complexes with Cyclam Derivatives: Toward F MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2020 , 59, 10071-10082	5.1	7
25	Formation and dissociation kinetics of copper(II) complexes with tetraphosphorus acid DOTA analogs. <i>Polyhedron</i> , 2014 , 67, 449-455	2.7	7
24	DOTA analogues with a phosphinate-iminodiacetate pendant arm: modification of the complex formation rate with a strongly chelating pendant. <i>Dalton Transactions</i> , 2017 , 46, 10484-10497	4.3	7
23	A New Tris(phosphonomethyl) Monoacetic Acid Cyclam Derivative: Synthesis, Acid-Base and Metal Complexation Studies. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 527-538	2.3	5
22	Capillary electrophoretic separation and kinetic study of inert copper(II) complexes of 1,8-bis(methylphosphonate) derivative of cyclam. <i>Polyhedron</i> , 2006 , 25, 1884-1892	2.7	5
21	Cross-Bridged Cyclam with Phosphonate and Phosphinate Pendant Arms: Chelators for Copper Radioisotopes with Fast Complexation. <i>Inorganic Chemistry</i> , 2020 , 59, 8432-8443	5.1	5
20	Complexes of phosphonate and phosphinate derivatives of dipicolylamine. <i>New Journal of Chemistry</i> , 2018 , 42, 7713-7722	3.6	4
19	Complexes of hydrophilic triphenylphosphines modified with gem-bis(phosphonate) moiety. An unusual simultaneous cis and trans arrangements in the Pt(II) dinuclear complex. <i>Dalton Transactions</i> , 2009 , 4942-53	4.3	4
18	Ten-membered Rings or Larger with One or More Nitrogen Atoms 2008 , 613-666		4
17	Synthesis and Coordination Behavior of Symmetrical Tetraamine Phosphinic Acids. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 3881-3891	2.3	4
16	Low-molecular-weight paramagnetic F contrast agents for fluorine magnetic resonance imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019 , 32, 115-122	2.8	4
15	A Clean Conversion of D-Glucosamine Hydrochloride to a Pyrazine in the Presence of Phenylboronate or Borate 2001 , 2001, 3899		4
14	Coordination Behavior of 1,4-Disubstituted Cyclen Endowed with Phosphonate, Phosphonate Monoethylester, and H-Phosphinate Pendant Arms. <i>Molecules</i> , 2019 , 24,	4.8	3
13	Bis(phosphonate)-Building Blocks Modified with Fluorescent Dyes. <i>Heteroatom Chemistry</i> , 2013 , 24, 413-425		3
12	Analysis of wild <i>Taraxacum bicorne</i> Dahlst. (Compositae: <i>Taraxacinae</i>) as a potential alternative natural rubber crop. <i>Genetic Resources and Crop Evolution</i> , 2019 , 66, 1341-1361	2	2
11	Selective and clean synthesis of aminoalkyl-phosphinic acids from hypophosphorous acid by phospho-Mannich reaction.. <i>RSC Advances</i> , 2020 , 10, 21329-21349	3.7	2
10	Transition metal complexes of tris(aminomethyl)phosphine oxide (tampo) – Thermodynamic and X-ray diffraction studies. <i>Inorganica Chimica Acta</i> , 2018 , 469, 217-226	2.7	2
9	Phosphinate Analogues of Ida and Nta with Low Basicity of Nitrogen Atom: Acid-Base and Complexation Properties. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2014 , 189, 933-945	1	2

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| 8 | Synthesis and Characterization of Ligands and their Gadolinium(III) Complexes 2013 , 83-155 | 2 |
| 7 | Synthesis and characterization of monophosphinic acid DOTA derivative: A smart tool with functionalities for multimodal imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 4297-4303 | 3-4 1 |
| 6 | Formation of gadolinium Ferritin from clinical magnetic resonance contrast agents. <i>Nanoscale Advances</i> , 2020 , 2, 5567-5571 | 5-1 1 |
| 5 | The solid-state structures and ligand cavity evaluation of lanthanide(iii) complexes of a DOTA analogue with a (dibenzylamino)methylphosphinate pendant arm. <i>Dalton Transactions</i> , 2020 , 49, 1555-1569 | 4-3 0 |
| 4 | Al(III)-NTA-fluoride: a simple model system for Al-F binding with interesting thermodynamics. <i>Dalton Transactions</i> , 2020 , 49, 13726-13736 | 4-3 |
| 3 | Complexes of cyclen side-bridged with a methylene-bis(phosphinate) group. <i>Polyhedron</i> , 2021 , 196, 114994 | 2-7 |
| 2 | 1,4,7-Triazacyclononane (tacn) with N,N'-bridging methylene-bis(phosphinic acid) group and its complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1261-1268 | 1-3 |
| 1 | Ten-Membered Rings or Lager With One or More Nitrogen Atoms 2021 , 591-591 | |