

# Zhen-Gang Sun

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Syntheses, Crystal Structures, and Luminescence Properties of a Series of Novel Lanthanide Oxalatophosphonates with Two Types of 3D Framework Structures. <i>Crystal Growth and Design</i> , 2010, 10, 406-413.	3.0	51
2	Synthesis, Crystal Structures, and Luminescence and Magnetic Properties of 3D Chiral and Achiral Lanthanide Diphosphonates Containing Left- and Right-Handed Helical Chains. <i>Crystal Growth and Design</i> , 2011, 11, 5346-5354.	3.0	51
3	Hydrothermal synthesis, structures, and luminescent properties of zinc(ii) and cadmium(ii) phosphonates with a 3D framework structure using terephthalate as second linkers. <i>Dalton Transactions</i> , 2011, 40, 5059.	3.3	48
4	Seven Novel Lanthanide Oxalatophosphonates with Two Types of 3D Framework Structures Based on <i>N</i> -Morpholinomethylphosphonic Acid: Syntheses, Crystal Structures, and Luminescence Properties. <i>Crystal Growth and Design</i> , 2009, 9, 3228-3234.	3.0	45
5	Synthesis, crystal structures and luminescence properties of lanthanide oxalatophosphonates with a three-dimensional framework structure. <i>New Journal of Chemistry</i> , 2009, 33, 119-124.	2.8	43
6	Synthesis, structure, surface photovoltage and magnetic properties of a novel 3D homochiral manganese phosphonate with right-handed helical chains. <i>CrystEngComm</i> , 2011, 13, 3317.	2.6	43
7	Syntheses, Crystal Structures, and Luminescence Properties of Three Novel Lead Carboxyphosphonates with 3D Framework Structures Using Rigid Aromatic Carboxylic Acids as Second Organic Ligands. <i>Crystal Growth and Design</i> , 2011, 11, 4623-4631.	3.0	42
8	Hydrothermal synthesis, crystal structures, and luminescent properties of a series of new lanthanide oxalatophosphonates with a layer architecture. <i>Dalton Transactions</i> , 2011, 40, 5584.	3.3	33
9	Syntheses, structures, luminescence and molecular recognition properties of four new cadmium carboxyphosphonates with 2D layered and 3D supramolecular structures. <i>CrystEngComm</i> , 2014, 16, 5050-5061.	2.6	31
10	Two fluorescent lead phosphonates for highly selective sensing of nitroaromatics (NACs), Fe <sup>3+</sup> and Mn <sup>4+</sup> ions. <i>RSC Advances</i> , 2016, 6, 110255-110265.	3.6	31
11	Synthesis, Crystal Structures, and Surface Photovoltage and Molecular Recognition Properties of Three Novel Metal Carboxyphosphonates with a 3D Pillared-Layered Structure. <i>Crystal Growth and Design</i> , 2014, 14, 1580-1590.	3.0	30
12	Homochiral MOF as Chiroptical Sensor for Determination of Absolute Configuration and Enantiomeric Ratio of Chiral Tryptophan. <i>Advanced Optical Materials</i> , 2021, 9, 2001889.	7.3	30
13	Synthesis, crystal structures, and surface photovoltage properties of four new metal diphosphonates based on the mixed ligands. <i>CrystEngComm</i> , 2013, 15, 1445.	2.6	29
14	Hydrothermal synthesis, crystal structure, and thermal stability of a novel 3D cadmium phosphonate with double-stranded helical channels. <i>Inorganic Chemistry Communication</i> , 2007, 10, 1109-1112.	3.9	25
15	Synthesis, structures and surface photovoltage properties of four novel metal phosphonates with a 3D supramolecular structure. <i>CrystEngComm</i> , 2012, 14, 5479.	2.6	25
16	Four Novel Oxomolybdenum-Organodiphosphonate Hybrids in the Presence of Cu(II) as Organonitrogen Building Blocks: Synthesis, Crystal Structures, and Surface Photovoltage Properties. <i>Crystal Growth and Design</i> , 2013, 13, 226-238.	3.0	25
17	Two novel lead(ii) carboxyphosphonates with a layered and a 3D framework structure: syntheses, crystal structures, reversible dehydration/hydration, and luminescence properties. <i>Dalton Transactions</i> , 2013, 42, 8009.	3.3	25
18	Dual-Functional Metal-Organic Framework for Luminescent Detection of Carcinoid Biomarkers and High Proton Conduction. <i>Inorganic Chemistry</i> , 2021, 60, 17303-17314.	4.0	25

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19	Hydrothermal synthesis, crystal structures and characterizations of a novel 3D metal phosphonate: Mg <sub>0.5</sub> Cd[O <sub>3</sub> PCH(OH)CO <sub>2</sub> ]. <i>Inorganic Chemistry Communication</i> , 2006, 9, 999-1001.	3.9	24
20	Chiral and Achiral Copper(II) Carboxyphosphonates Supramolecular Structures: Synthesis, Structures, Surface Photovoltage, and Magnetic Properties. <i>Crystal Growth and Design</i> , 2016, 16, 5624-5635.	3.0	24
21	Hydrothermal synthesis and crystal structure of a novel lead(II) phosphonate containing trifunctional phosphonate anions: Pb <sub>4</sub> O[O <sub>3</sub> PCH <sub>2</sub> NC <sub>4</sub> H <sub>7</sub> CO <sub>2</sub> ] <sub>2</sub> . <i>Inorganic Chemistry Communication</i> , 2006, 9, 1121-1124.	3.9	21
22	Synthesis and crystal structures of two new inorganic-organic hybrid polyoxomolybdate complexes: [Himi] <sub>4</sub> {Co(imi) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> }Mo <sub>7</sub> O <sub>24</sub> ·4H <sub>2</sub> O and [Zn(imi) <sub>4</sub> ] <sub>2</sub> [(imi) <sub>2</sub> Mo <sub>8</sub> O <sub>26</sub> ]·6H <sub>2</sub> O. <i>Inorganic Chemistry Communication</i> , 2007, 10, 757-761.	3.9	20
23	Synthesis and crystal structure of Zn[O <sub>3</sub> PCH(NH <sub>2</sub> )CH <sub>3</sub> ]·2H <sub>2</sub> O, the first zinc $\beta$ -aminoethylphosphonate with a layer structure. <i>Inorganic Chemistry Communication</i> , 2006, 9, 1232-1234.	3.9	18
24	A series of novel lanthanide carboxyphosphonates with a 3D framework structure: synthesis, structure, and luminescent and magnetic properties. <i>Dalton Transactions</i> , 2012, 41, 10948.	3.3	18
25	Synthesis, characterizations, and crystal structure of a novel 2D metal phosphonate: Na <sub>2</sub> [Cd <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> (O <sub>3</sub> PCH(OH)CO <sub>2</sub> ) <sub>2</sub> ]·2H <sub>2</sub> O. <i>Inorganic Chemistry Communication</i> , 2007, 10, 283-286.	3.9	17
26	Synthesis and characterizations of a layered antimony (III) phosphonate: [NH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub> ][Sb <sub>2</sub> (O <sub>3</sub> PCH(OH)CO <sub>2</sub> ) <sub>2</sub> ]. <i>Inorganic Chemistry Communication</i> , 2007, 10, 535-537.	3.9	17
27	Hydrothermal synthesis, structures, and luminescent properties of four new zinc(ii) diphosphonate hybrids with mixed ligands. <i>CrystEngComm</i> , 2011, 13, 6099.	2.6	17
28	Mixed-solvothermal synthesis, structures, luminescent and surface photovoltage properties of four new transition metal diphosphonates with a 3D supramolecular structure. <i>New Journal of Chemistry</i> , 2013, 37, 212-219.	2.8	17
29	Synthesis and characterization of organophosphoryl polyoxotungstate [ $\pm$ -R <sub>2</sub> P <sub>2</sub> W <sub>17</sub> O <sub>61</sub> ] <sub>6</sub> <sup>n-</sup> (R=C <sub>6</sub> H <sub>11</sub> P(O), C <sub>6</sub> H <sub>5</sub> P(O), C <sub>6</sub> H <sub>11</sub> P(S), C <sub>6</sub> H <sub>5</sub> P(S)). <i>Inorganic Chemistry Communication</i> , 2000, 3, 328-330.	3.9	16
30	Synthesis and spectroscopic characterization of organophosphoryl polyoxotungstates [C <sub>6</sub> H <sub>11</sub> P(O)] <sub>2</sub> X <sub>n</sub> +W <sub>11</sub> O <sub>39</sub> (8-n) <sup>n-</sup> (X <sub>n</sub> =P <sup>5+</sup> , Si <sup>4+</sup> , B <sup>3+</sup> , Ga <sup>3+</sup> ). <i>Polyhedron</i> , 2000, 19, 125-128.	2.2	16
31	Synthesis, crystal structure and luminescence properties of eight new lanthanide carboxyphosphonates with a 3D framework structure. <i>New Journal of Chemistry</i> , 2010, 34, 2429.	2.8	16
32	Hydrothermal synthesis of poly(acrylic acid)-functionalized $\beta$ -( $\beta$ -)NaYF <sub>4</sub> :Yb, Er up-conversion nano-/micro-phosphors. <i>Powder Technology</i> , 2013, 237, 326-332.	4.2	16
33	Mixed-solvothermal syntheses, structures and luminescence properties of two new Zn(II) phosphonates with layered and 3D framework structures. <i>Inorganica Chimica Acta</i> , 2011, 368, 200-206.	2.4	15
34	Two novel cadmium(II) carboxyphosphonates with 3D framework structure: synthesis, crystal structures, luminescence and molecular recognition properties. <i>RSC Advances</i> , 2015, 5, 79041-79049.	3.6	15
35	Terbium Oxalato-phosphonate as Efficient Multiresponsive Luminescent Sensors for Chromate Anions and Tryptophan Molecules. <i>ACS Omega</i> , 2018, 3, 16735-16742.	3.5	15
36	Cadmium(II) carboxyphosphonates based on mixed ligands: syntheses, crystal structures and recognition properties toward amino acids. <i>RSC Advances</i> , 2016, 6, 92175-92185.	3.6	14

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37	Synthesis, crystal structure and characterizations of a new 3D porous zinc phosphonate: Zn <sub>6</sub> [(O <sub>3</sub> PCH <sub>2</sub> ) <sub>2</sub> NHC <sub>6</sub> H <sub>11</sub> ] <sub>4</sub> ·6H <sub>2</sub> O. <i>Inorganic Chemistry Communication</i> , 2008, 11, 211-214.	3.9	13
38	Synthesis, crystal structure and characterizations of a novel lanthanide oxalatophosphonate with a 3D open-framework structure [Gd <sub>2</sub> {HO <sub>3</sub> PCH <sub>2</sub> NHCH <sub>2</sub> (CH <sub>2</sub> CH <sub>2</sub> OPO <sub>2</sub> )}(C <sub>2</sub> O <sub>4</sub> ) <sub>2.5</sub> (H <sub>2</sub> O) <sub>2</sub> }]·5H <sub>2</sub> O. <i>Inorganic Chemistry Communication</i> , 2008, 11, 1057-1059.	3.9	13
39	Syntheses, crystal structures, surface photovoltage, luminescence and molecular recognition properties of zinc(ii) and iron(ii) carboxyphosphonates with 2D and 3D supramolecular structures. <i>CrystEngComm</i> , 2014, 16, 1174.	2.6	13
40	Mixed-solvothermal synthesis, structures, surface photovoltage, luminescence and molecular recognition properties of three new transition metal phosphonates with 3D framework and supramolecular structures. <i>RSC Advances</i> , 2015, 5, 26410-26419.	3.6	13
41	SYNTHESIS AND SPECTROSCOPIC CHARACTERIZATION OF ORGANOPHOSPHORYL POLYOXOTUNGSTATES OF FORMULA $\text{A}^{\pm}\text{[RP(O)]}_2\text{PW}_9\text{O}_{345}$ . <i>Main Group Metal Chemistry</i> , 2000, 23, .	1.6	11
42	Novel Lanthanide(III) Oxalatophosphonates with New Topology: Syntheses, Crystal Structures, Reversible Dehydration/Hydration, and Luminescence Properties. <i>Crystal Growth and Design</i> , 2012, 12, 3191-3199.	3.0	11
43	Synthesis, characterizations, and crystal structure of a novel layered phosphonate: Zn <sub>2</sub> Cl[(O <sub>3</sub> PCH <sub>2</sub> N(CH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> O)] <sub>2</sub> [(O <sub>3</sub> PCH <sub>2</sub> NH(CH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> O)]. <i>Inorganic Chemistry Communication</i> , 2009, 12, 38-40.	3.9	10
44	Uniform decoration of UiO-66-NH <sub>2</sub> nanooctahedra on TiO <sub>2</sub> electrospun nanofibers for enhancing photocatalytic H <sub>2</sub> production based on multi-step interfacial charge transfer. <i>Dalton Transactions</i> , 2021, 50, 6152-6160.	3.3	10
45	Synthesis, structure, and luminescent property of a novel cadmium (II) phosphonate with a 3D framework structure using 1,4-benzenedicarboxylic acid as second linker. <i>Inorganic Chemistry Communication</i> , 2011, 14, 1715-1718.	3.9	9
46	Synthesis and spectroscopic characterization of organophosphoryl tungstosilicates $\text{A}^{\pm}\text{[RP(O)]}_2\text{SiW}_{11}\text{O}_{39}$ . <i>Inorganic Chemistry Communication</i> , 2003, 6, 238-240.	3.9	8
47	Synthesis, crystal structure, and thermal stability of a novel 3D cadmium carboxyphosphonate containing left-hand helical chains Cd <sub>3</sub> Cl <sub>2</sub> [(O <sub>3</sub> PCH <sub>2</sub> N(H)C <sub>5</sub> H <sub>9</sub> COO) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> }]·4H <sub>2</sub> O. <i>Inorganic Chemistry Communication</i> , 2009, 12, 276-279.	3.9	8
48	Zinc(ii) and cadmium(ii) carboxyphosphonates with a 3D pillared-layered structure: synthesis, crystal structures, high thermal stabilities and luminescent properties. <i>RSC Advances</i> , 2013, 3, 623-631.	3.6	8
49	Two novel oxovanadium organophosphonate hybrids with a 3D supramolecular structure: synthesis, crystal structures, surface photovoltage and luminescent properties. <i>RSC Advances</i> , 2014, 4, 46595-46601.	3.6	8
50	Transition metal phosphonates with supramolecular structures: syntheses, structures, surface photovoltage and luminescence properties. <i>New Journal of Chemistry</i> , 2016, 40, 578-588.	2.8	8
51	Synthesis, spectroscopic properties and crystal structure of organophosphoryl polyoxotungstate $\text{A}^{\pm}\text{[Bu}_4\text{N]}_3\text{H[PhCH}_2\text{P(O)]}_2\text{SiW}_{11}\text{O}_{39}$ . <i>Journal of Coordination Chemistry</i> , 2006, 59, 1557-1564.	2.2	7
52	Hydrothermal syntheses, crystal structures and thermal stability of two divalent metal phosphonates with a layered and a 3D structure. <i>Journal of Coordination Chemistry</i> , 2008, 61, 1316-1324.	2.2	7
53	Hydrothermal syntheses, crystal structures and thermal stabilities of three lanthanide(III) diphosphonates. <i>Journal of Coordination Chemistry</i> , 2009, 62, 294-301.	2.2	7
54	Hydrothermal Synthesis, Crystal Structure and Characterizations of Four New Metal Phosphonates with Layered Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 247-252.	1.2	7

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55	Hydrothermal Synthesis, Crystal Structure, and Characterization of Two New Metal Diphosphonates with a 3D Pillared Layered Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 1405-1409.	1.2	7
56	Lanthanide( $\text{Ln}^{3+}$ ) oxalatophosphonates: syntheses, crystal structures and luminescence properties. <i>Dalton Transactions</i> , 2014, 43, 1542-1549.	3.3	7
57	Hydrothermal syntheses, crystal structures, and thermal stability of two new 3D open-framework metal(II) phosphonates. <i>Journal of Coordination Chemistry</i> , 2007, 60, 1247-1254.	2.2	6
58	A New Anderson-type Heteropolyanion-Supported Transition Metal Complex: $[\text{Himi}]_2[\text{Ni}(\text{imi})_3(\text{H}_2\text{O})\{\text{Ni}(\text{OH})_6\text{Mo}_6\text{O}_{18}\}] \cdot 2\text{H}_2\text{O}$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 1173-1176.	2.1	2
59	Hydrothermal Synthesis, Crystal Structure, and Thermal Stability of Two New Metal Phosphonates with a Pillared Layered Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 2629-2633.	1.2	6
60	Hydrothermal Synthesis, Crystal Structure and Characterizations of Two New Manganese(II) Phosphonates with a 3D Framework Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 171-174.	1.2	6
61	Solvothermal Syntheses and Structure of a New Polyoxomolybdate Functionalized with Carboxyphosphonate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 108-111.	1.2	6
62	Synthesis, structure, and luminescent property of a novel cadmium (II) carboxyphosphonate with a 2D layered structure using 1,4-benzenedicarboxylic acid as second linker. <i>Inorganic Chemistry Communication</i> , 2012, 17, 64-67.	3.9	6
63	Synthesis, structures, surface photovoltage and luminescence properties of two new nickel( $\text{Ni}^{2+}$ ) carboxyphosphonates with a 3D framework structure. <i>RSC Advances</i> , 2014, 4, 49892-49899.	3.6	6
64	Lanthanide oxalatophosphonates with two types of layered structures: syntheses, structures, luminescence and magnetic properties. <i>New Journal of Chemistry</i> , 2018, 42, 1235-1242.	2.8	6
65	Differently luminescent sensing abilities for $\text{Cu}^{2+}$ ion of two metal phosphonates with or without the free Lewis basic pyridyl sites. <i>Journal of Molecular Structure</i> , 2021, 1234, 130175.	3.6	6
66	Synthesis and Crystal Structures of Two New Layered Manganese(II) Diphosphonates: $\text{Mn}_2\{[(\text{O}_3\text{PCH}_2)_2\text{NHR}]\text{H}_2\text{O}\}_2$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 571-574.	1.9	5
67	Title is missing!. <i>Transition Metal Chemistry</i> , 2003, 28, 849-851.	1.4	4
68	Hydrothermal synthesis and crystal structures of two new divalent metal phosphonates with layered structure. <i>Journal of Coordination Chemistry</i> , 2007, 60, 2075-2083.	2.2	4
69	Hydrothermal synthesis, crystal structure and thermal stability of a new 2D layered metal(II) phosphonate: $[\text{NH}_3\text{CH}_2\text{CH}_2\text{NH}_3][\text{Fe}_2(\text{O}_3\text{PCH}(\text{OH})\text{CO}_2)_2(\text{H}_2\text{O})_2] \cdot 2\text{H}_2\text{O}$ . <i>Journal of Coordination Chemistry</i> , 2007, 60, 2541-2547.	2.2	4
70	Hydrothermal syntheses, crystal structures and luminescence properties of three new metal diphosphonates with layered structure. <i>Inorganica Chimica Acta</i> , 2012, 387, 186-194.	2.4	4
71	Synthesis, structure, and surface photovoltage property of two new cobalt (II) phosphonates with 2D layered structure. <i>Inorganic Chemistry Communication</i> , 2014, 40, 181-186.	3.9	4
72	Synthesis, structures, luminescent and molecular recognition properties of three new alkaline earth metal carboxyphosphonates with a 3D supramolecular structure. <i>New Journal of Chemistry</i> , 2015, 39, 6611-6622.	2.8	4

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73	Two novel zinc(II) phosphonates for the selective luminescence sensing of 1,2,4-trichlorobenzene and Hg <sub>2</sub> <sup>+</sup> . <i>Microchemical Journal</i> , 2020, 159, 105385.	4.5	4
74	Synthesis and characterization of two new $\hat{2}$ -octamolybdate complexes [NH <sub>4</sub> ][Y(DMF) <sub>5</sub> (H <sub>2</sub> O) <sub>3</sub> ][Mo <sub>8</sub> O <sub>26</sub> ] $\hat{A}$ ·2CH <sub>3</sub> CN and [NH <sub>4</sub> ][Ce(DMF) <sub>7</sub> Mo <sub>8</sub> O <sub>26</sub> ]. <i>Journal of Coordination Chemistry</i> , 2007, 60, 985-993.	2.2	3
75	Hydrothermal synthesis and crystal structures of Mn(II) and Cd(II) aminophosphonates with a layered structure. <i>Journal of Coordination Chemistry</i> , 2008, 61, 2478-2487.	2.2	3
76	Hydrothermal Synthesis, Crystal Structure, and Characterizations of a New Lanthanide Oxalato-phosphonate with a 3D Framework Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 449-453.	1.2	3
77	Synthesis, Structures and Recognition Properties of Two Cadmium(II) Phosphonates for Highly Selective Sensing of Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup> and CrO <sub>4</sub> <sup>2-</sup> Anions. <i>ChemistrySelect</i> , 2018, 3, 6845-6851.	1.5	3
78	Syntheses, structures and luminescent properties of cadmium(II) and silver(I) carboxyphosphonates with 2D supramolecular and layered structures. <i>Solid State Sciences</i> , 2015, 41, 8-13.	3.2	2
79	Synthesis and spectroscopic characterization of organophosphoryl polyoxotungstates $\hat{1}\pm$ -[PhP(Y)] <sub>2</sub> X <sub>n</sub> +W <sub>11</sub> . <i>Journal of Coordination Chemistry</i> , 2005, 58, 1321-1326.	2.2	1
80	Hydrothermal syntheses and crystal structures of two transition metal complexes supported by vanadate {V <sub>4</sub> O <sub>12</sub> }: {[M(dpa) <sub>2</sub> ] <sub>2</sub> V <sub>4</sub> O <sub>12</sub> } (M = Co, Ni. dpa = 2,2'-dipyridylamine). <i>Journal of Coordination Chemistry</i> , 2008, 61, 1475-1483.	2.2	1
81	Hydrothermal Synthesis, Crystal Structure, and Characterizations of Five New Lanthanide(III) Diphosphonates with a Layered Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 111-115.	1.2	1
82	Two Highly Stable Luminescent Lead Phosphonates Based on Mixed Ligands: Highly Selective and Sensitive Sensing for Thymine Molecule and VO <sub>3</sub> <sup>-</sup> Anion. <i>ACS Omega</i> , 2018, 3, 16443-16452.	3.5	1
83	Hydrothermal Synthesis, Crystal Structures, and Thermal Stabilities of Two New Zinc Phosphonates with a Layered and a 3D Framework Structures. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 2617-2621.	1.2	0
84	3D Framework and Supramolecular Structures Assembly from a Carboxyphosphonic Acid and Transition Metals: Sensing of Nitro Compounds and Surface Photovoltage Properties. <i>ChemistrySelect</i> , 2016, 1, 6783-6791.	1.5	0