

# Zoila Barandiaran

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1036901/publications.pdf>

Version: 2024-02-01

107  
papers

4,219  
citations

109321  
35  
h-index

128289  
60  
g-index

118  
all docs

118  
docs citations

118  
times ranked

1951  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge transfer from Eu <sup>2+</sup> to trivalent lanthanide co-dopants: Systematic behavior across the series. Journal of Chemical Physics, 2021, 154, 064704. Elucidation of the electron transfer mechanism in <mml:math>\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}</mml:math><\!\!\text{mml:msup}><\!\!\text{mml:mrow}><\!\!\text{mml:mi}>\text{Eu}</\!\!\text{mml:mi}></\!\!\text{mml:mrow}><\!\!\text{mml:mrow}><\!\!\text{mml:math}>\text{and }<\!\!\text{mml:math}<\!\!\text{mml:msup}><\!\!\text{mml:mrow}><\!\!\text{mml:mi}>\text{Sm}</\!\!\text{mml:mi}></\!\!\text{mml:mrow}><\!\!\text{mml:mrow}><\!\!\text{mml:math}<\!\!\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}</\!\!\text{mml:math}><\!\!\text{mml:msub}><\!\!\text{mml:mi}>	3.0	20
2	x codoped <mml:math>\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}</mml:math><\!\!\text{mml:msup}><\!\!\text{mml:mrow}><\!\!\text{mml:mi}>\text{Sm}</\!\!\text{mml:mi}></\!\!\text{mml:mrow}><\!\!\text{mml:mrow}><\!\!\text{mml:math}<\!\!\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}</\!\!\text{mml:math}><\!\!\text{mml:msub}><\!\!\text{mml:mi}>	3.2	18
3	Review B, 2021, 104, . Insights into the complexity of the excited states of Eu-doped luminescent materials. Inorganic Chemistry Frontiers, 2020, 7, 871-888.	6.0	49
4	Mixed-Valence Lanthanide-Activated Phosphors: Invariance of the Intervalence Charge Transfer (IVCT) Absorption Onset across the Series. Journal of Physical Chemistry C, 2020, 124, 2619-2626.	3.1	15
5	Broadband infrared LEDs based on europium-to-terbium charge transfer luminescence. Nature Communications, 2020, 11, 3647.	12.8	99
6	Fine-Tuning the Cr <sup>3+</sup> -R <sub>1</sub> -Line by Controlling Pauli Antisymmetry Strength. Journal of Physical Chemistry Letters, 2019, 10, 3176-3180.	4.6	6
7	Direct Evidence of Intervalence Charge-Transfer States of Eu-Doped Luminescent Materials. Journal of Physical Chemistry Letters, 2019, 10, 1581-1586.	4.6	34
8	X-ray Excitation Triggers Ytterbium Anomalous Emission in CaF <sub>2</sub> :Yb but Not in SrF <sub>2</sub> :Yb. Journal of Physical Chemistry Letters, 2017, 8, 1175-1178.	4.6	16
9	Energy Level Structure and Multiple 4f <sup>12</sup> -5d <sup>1</sup> Emission Bands for Tm <sup>2+</sup> in Halide Perovskites: Theory and Experiment. Journal of Physical Chemistry C, 2017, 121, 10095-10101.	3.1	24
10	Color Control of Pr <sup>3+</sup> Luminescence by Electron-Hole Recombination Energy Transfer in CaTiO <sub>3</sub> and CaZrO <sub>3</sub> . Journal of Physical Chemistry Letters, 2017, 8, 3095-3100.	4.6	41
11	The Complexity of the CaF <sub>2</sub> :Yb System: A Huge, Reversible, X-ray-induced Valence Reduction. Journal of Physical Chemistry C, 2017, 121, 28435-28442.	3.1	17
12	Evidence That the Anomalous Emission from CaF <sub>2</sub> :Yb <sup>2+</sup> Is Not Described by the Impurity Trapped Exciton Model. Journal of Physical Chemistry Letters, 2017, 8, 3313-3316.	4.6	17
13	New Insights in 4f <sup>12</sup> -5d <sup>1</sup> Excited States of Tm <sup>2+</sup> through Excited State Excitation Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 2730-2734.	4.6	17
14	Ab Initio Calculations on Excited States of Lanthanide Containing Materials. Fundamental Theories of Physics, 2016, 50, 65-89.	0.3	10
15	Red shifts of the yellow emission of YAG:Ce <sup>3+</sup> due to tetragonal fields induced by cationic substitutions. RSC Advances, 2016, 6, 25741-25743.	3.6	10
16	Metal-to-metal charge transfer between dopant and host ions: Photoconductivity of Yb-doped CaF <sub>2</sub> and SrF <sub>2</sub> crystals. Journal of Chemical Physics, 2015, 143, 144702.	3.0	15
17	Structural relaxation effects on the lowest 4f-5d transition of Ce <sup>3+</sup> in garnets. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	12
18	Configuration coordinate energy level diagrams of intervalence and metal-to-metal charge transfer states of dopant pairs in solids. Physical Chemistry Chemical Physics, 2015, 17, 19874-19884.	2.8	64

#	ARTICLE	IF	CITATIONS
19	Anomalous Red and Infrared Luminescence of Ce <sup>3+</sup> Ions in SrS:Ce Sintered Ceramics. Journal of Physical Chemistry C, 2015, 119, 27649-27656.	3.1	14
20	Intervalence charge transfer luminescence: Interplay between anomalous and 5d <i>d</i> / <i>f</i> → 4 <i>f</i> emissions in Yb-doped fluorite-type crystals. Journal of Chemical Physics, 2014, 141, 234704.	3.0	56
21	Intervalence charge transfer luminescence: The anomalous luminescence of cerium-doped Cs <sub>2</sub> LiLuCl <sub>6</sub> elpasolite. Journal of Chemical Physics, 2014, 141, 214706.	3.0	32
22	Ab initio theoretical study of the $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0291.gif" overflow="scroll">\langle \text{mml:mn}4\langle \text{mml:msup}\langle \text{mml:mrow}\langle \text{mml:mi}\text{mathvariant="normal">f\langle \text{mml:mi}\rangle\langle \text{mml:mrow}\langle \text{mml:mrow}\langle \text{mml:mn}8\langle \text{mml:mn}\rangle\langle \text{mml:mrow}\rangle\langle \text{mml:msup}\rangle\langle \text{mml:math}\rangle\text{and }4f75d\text{ manifolds of Tb}3+\text{-doped BaF}_2\text{ cubic sites. Journal of Luminescence, 2014, 145, 808-817.}$	3.1	20
23	Ab initio Theoretical Study on the 4f <sup>2</sup> and 4f5d Electronic Manifolds of Cubic Defects in CaF <sub>2</sub> :Pr <sup>3+</sup> . Journal of Physical Chemistry A, 2014, 118, 358-368.	2.5	28
24	Large splittings of the 4f shell of Ce <sup>3+</sup> in garnets. Physical Chemistry Chemical Physics, 2014, 16, 3830.	2.8	35
25	Blue absorption and red emission of Bi <sup>2+</sup> in solids: strongly spin-orbit coupled 6p levels in low symmetry fields. Physical Chemistry Chemical Physics, 2014, 16, 17305-17314.	2.8	13
26	Structure and Hindered Vibration of Bi <sup>2+</sup> in the Red-Orange Phosphor SrB <sub>4</sub> O <sub>7</sub> :Bi. Journal of Physical Chemistry C, 2014, 118, 17932-17939.	3.1	15
27	Is Bi <sup>2+</sup> Responsible for the Red-Orange Emission of Bismuth-Doped SrB <sub>4</sub> O <sub>7</sub> ? Journal of Physical Chemistry C, 2014, 118, 9696-9705.	3.1	38
28	Host effects on the optically active 4f and 5d levels of Ce <sup>3+</sup> in garnets. Physical Chemistry Chemical Physics, 2013, 15, 19221.	2.8	36
29	Radial correlation effects on interconfigurational excitations at the end of the lanthanide series: A restricted active space second order perturbation study of Yb <sup>2+</sup> and SrCl <sub>2</sub> :Yb <sup>2+</sup> . Journal of Chemical Physics, 2013, 138, 074102.	3.0	25
30	4f and 5d Levels of Ce <sup>3+</sup> in D2 8-fold oxygen coordination. Optical Materials, 2013, 35, 1932-1940.	3.6	42
31	Effective Hamiltonian parameters for ab initio energy-level calculations of SrCl <sub>2</sub> :Yb <sup>2+</sup> and CsCaBr <sub>3</sub> :Yb <sup>2+</sup> . Journal of Physics Condensed Matter, 2013, 25, 415504.	1.8	10
32	Antisite defects in Ce-doped YAG (Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> ): first-principles study on structures and 4f-5d transitions. Journal of Materials Chemistry, 2012, 22, 19888.	6.7	38
33	Ab initio theoretical study of luminescence properties of Pr <sup>3+</sup> -doped Lu <sub>2</sub> O <sub>3</sub> . Theoretical Chemistry Accounts, 2011, 129, 545-554.	1.4	17
34	Energy level shifts in two-step spin-orbit coupling ab initio calculations. Chemical Physics Letters, 2010, 498, 226-228.	2.6	8
35	Yb <sup>2+</sup> -doped SrCl <sub>2</sub> : Electronic structure of impurity states and impurity-trapped excitons. Journal of Chemical Physics, 2010, 133, 114509.	3.0	42
36	Electronic spectra of Yb <sup>2+</sup> -doped SrCl <sub>2</sub> . Journal of Chemical Physics, 2010, 133, 114506.	3.0	26

#	ARTICLE	IF	CITATIONS
37	Energy Shift of the $4f$ states of $\text{Yb}^{2+}$ from Gas Phase to the $\text{CsCaBr}_3$ Solid. Spectroscopy Letters, 2010, 43, 393-399.	1.0	9
38	Structural effects and shifts induced by La codoping in Ce-doped yttrium aluminum garnet: First-principles study. Physical Review B, 2010, 82, .	3.2	54
39	Improved Embedding Ab Initio Model Potentials for Embedded Cluster Calculations. Journal of Physical Chemistry A, 2009, 113, 12454-12460.	2.5	24
40	Spin-forbidden and spin-enabled $4f_{14}\rightarrow 4f_{13}5d_1$ transitions of $\text{Yb}^{2+}$ -doped $\text{CsCaBr}_3$ . Journal of Chemical Physics, 2009, 131, 024505.	3.0	22
41	Energy Gaps in the $4f_{13}5d_1$ Manifold and Multiple Spontaneous Emissions in $\text{Yb}^{2+}$ -Doped $\text{CsCaBr}_3$ . Journal of Physical Chemistry A, 2009, 113, 12591-12598.	2.5	30
42	Ab initio calculations on the local structure and the $4f\rightarrow 5d$ absorption and emission spectra of -doped YAG. Journal of Luminescence, 2008, 128, 1248-1254.	3.1	93
43	Embedding Fragment ab Initio Model Potentials in CASSCF/CASPT2 Calculations of Doped Solids: Implementation and Applications. Journal of Chemical Theory and Computation, 2008, 4, 586-594.	5.3	50
44	Geometry and electronic structure of impurity-trapped excitons in $\text{Cs}_2\text{GeF}_6:\text{U}^{4+}$ crystals. The $5f_{17}s_1$ manifold. Journal of Chemical Physics, 2007, 126, 194712.	3.0	21
45	Detailed interpretation of the 5f-6d absorption spectrum of $\text{U}^{3+}$ in $\text{Cs}_2\text{NaYCl}_6$ and high pressure effects based on an ab initio simulation. Journal of Chemical Physics, 2007, 127, 144712. Relation between high-pressure spectroscopy and $\text{mml:math}$ xmlns:mml="http://www.w3.org/1998/Math/MathML"	3.0	10
46	geometry: A comparison between theoretical and experimental results in $\text{mml:math}$ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> $\text{mml:mrow}$ $\text{mml:mi}$ mathvariant=. Physical Review B, 2007, 76, .	3.2	20
47	The 5f3 manifold of the free-ion $\text{U}^{3+}$ : Ab initio calculations. Chemical Physics Letters, 2007, 434, 1-5.	2.6	13
48	The luminescence spectrum of in $\text{Cs}_2\text{GeF}_6$ crystals: A quantum chemical study. Journal of Luminescence, 2007, 126, 779-783.	3.1	18
49	Order-N and embedded-cluster first-principles DFT calculations using SIESTA/Mosaico. Theoretical Chemistry Accounts, 2007, 118, 541-547.	1.4	10
50	Large anomalies due to insufficiency of Madelung embedding in ab initio calculations of $4f^{14}5d$ and $4f^{13}6s$ excitations of lanthanides in ionic crystals: The $\text{BaF}_2:\text{Ce}^{3+}$ crystal. Physical Review B, 2006, 74, .	3.2	28
51	On the Bond Length Change upon $4f_1\rightarrow 5d_1$ Excitations in Eightfold Coordination: $\text{CaF}_2:\text{Ce}^{3+}$ Cubic Defects. Theoretical Chemistry Accounts, 2006, 116, 505-508.	1.4	15
52	Theoretical study of the effects of F to Cl chemical substitution on the electronic structure and the luminescence properties of $\text{Cs}_2\text{GeF}_6:\text{Os}^{4+}$ and $\text{Cs}_2\text{ZrCl}_6:\text{Os}^{4+}$ materials. Journal of Chemical Physics, 2006, 124, 124315.	3.0	8
53	The 5f2 $\rightarrow$ 5f16d1 absorption spectrum of $\text{Cs}_2\text{GeF}_6:\text{U}^{4+}$ crystals: A quantum chemical and experimental study. Journal of Chemical Physics, 2006, 125, 074511.	3.0	22
54	Bond lengths of and states of hexahalides. Journal of Solid State Chemistry, 2005, 178, 464-469.	2.9	40

#	ARTICLE	IF	CITATIONS
55	Quantum chemical study of $4f \rightarrow 5d$ excitations of trivalent lanthanide ions doped in the cubic elpasolite $\text{Cs}_2\text{NaYCl}_6$ . $\text{Ce}^{3+}$ to $\text{Tb}^{3+}$ . <i>Journal of Chemical Physics</i> , 2005, 123, 244703.	3.0	30
56	$5f \rightarrow 5f$ transitions of $\text{U}^{4+}$ ions in high-field, octahedral fluoride coordination: The $\text{Cs}_2\text{GeF}_6:\text{U}^{4+}$ crystal. <i>Journal of Chemical Physics</i> , 2005, 123, 204502.	3.0	19
57	Prediction of pressure-induced redshift of $f_1 \rightarrow d(t_{2g})_1$ excitations in $\text{Cs}_2\text{NaYCl}_6:\text{Ce}^{3+}$ and its connection with bond-length shortening. <i>Journal of Chemical Physics</i> , 2005, 122, 234507.	3.0	19
58	Parallel, linear-scaling building-block and embedding method based on localized orbitals and orbital-specific basis sets. <i>Journal of Chemical Physics</i> , 2004, 121, 6698-6709.	3.0	27
59	Relativistic Ab-Initio Model Potential Calculations for Molecules and Embedded Clusters. <i>Theoretical and Computational Chemistry</i> , 2004, , 417-475.	0.4	12
60	Absorption and Emission Spectra of $\text{Ce}^{3+}$ in Elpasolite Lattices. <i>Journal of the American Chemical Society</i> , 2003, 125, 13225-13233.	13.7	95
61	Transferability of core potentials to f and d states of lanthanide and actinide ions. <i>Molecular Physics</i> , 2003, 101, 73-80.	1.7	75
62	Quantum chemical study of the lanthanide bond length contraction on $\text{Ln}^{3+}$ -doped $\text{Cs}_2\text{NaYCl}_6$ crystals ( $\text{Ln}=\text{Ce}$ to $\text{Lu}$ ). <i>Journal of Chemical Physics</i> , 2003, 119, 6143-6149.	3.0	16
63	Quantum chemical analysis of the bond lengths in $f_n$ and $f_{n-1}d_1$ states of $\text{Ce}^{3+}$ , $\text{Pr}^{3+}$ , $\text{Pa}^{4+}$ , and $\text{U}^{4+}$ defects in chloride hosts. <i>Journal of Chemical Physics</i> , 2003, 119, 3785-3790.	3.0	52
64	Ab initio theoretical studies on $\text{U}^{3+}$ and on the structure and spectroscopy of $\text{U}^{3+}$ substitutional defects in $\text{Cs}_2\text{NaYCl}_6$ , $5f^6S_2d_1$ manifold. <i>Journal of Chemical Physics</i> , 2003, 118, 5335-5346.	3.0	43
65	High pressure effects on the structure and spectroscopy of $\text{V}^{3+}$ substitutional defects in $\text{Cs}_2\text{NaYCl}_6$ . An ab initioembedded cluster study. <i>Journal of Chemical Physics</i> , 2003, 118, 1921-1928.	3.0	15
66	Structure and spectroscopy of $\text{U}^{4+}$ defects in $\text{Cs}_2\text{ZrCl}_6$ : Ab initio theoretical studies on the $5f^6S_2$ and $5f^6S_16d^1$ manifolds. <i>Journal of Chemical Physics</i> , 2003, 118, 7439.	3.0	46
67	On the nature of the ground state of Cr(V) defects in $\text{YVO}_4$ : An ab initio model potential embedded-cluster study. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 751-758.	2.0	2
68	The ab initio model potential method: Lanthanide and actinide elements. <i>Journal of Chemical Physics</i> , 2001, 114, 118.	3.0	75
69	Ab initio model potential embedded-cluster calculation of the geometric structure of $\text{Tl}^+$ monomer and dimer centers in $\text{KCl}$ . <i>Computational and Theoretical Chemistry</i> , 2001, 537, 151-161.	1.5	2
70	Structure and spectroscopy of $\text{Pa}^{4+}$ defects in $\text{Cs}_2\text{ZrCl}_6$ . An ab initio theoretical study. <i>Journal of Chemical Physics</i> , 2001, 115, 5554-5560.	3.0	32
71	Alternative configuration interaction expansions for transition metal ions with intermediate oxidation states in crystals: The structure and absorption spectrum of $\text{Cs}_2\text{GeF}_6:\text{Mn}^{4+}$ . <i>Journal of Chemical Physics</i> , 2001, 115, 7061-7065.	3.0	15
72	Structure and spectroscopy of $\text{Cr}^{3+}$ defects in $\text{KMgF}_3$ , $\text{KZnF}_3$ , and $\text{CsCaF}_3$ crystals. An ab initio model potential embedded cluster study. <i>International Journal of Quantum Chemistry</i> , 2000, 77, 961-972.	2.0	14

#	ARTICLE		IF	CITATIONS
73	Ab initio model potential embedded cluster calculation of the absorption spectrum of Cs <sub>2</sub> GeF <sub>6</sub> :Mn <sup>4+</sup> . Large discrepancies between theory and experiment. International Journal of Quantum Chemistry, 2000, 80, 623-635.		2.0	16
74	The <math>\langle i \rangle</math> Ab Initio <math>\langle i \rangle</math> Model Potential Method: A Common Strategy for Effective Core Potential and Embedded Cluster Calculations. Computational Chemistry - Reviews of Current Trends, 1999, , 55-152.		0.4	89
75	Ab initio model potential embedded cluster study of the structure and spectroscopy of V <sup>3+</sup> -doped elpasolites K <sub>2</sub> NaScF <sub>6</sub> , Cs <sub>2</sub> NaYCl <sub>6</sub> and Cs <sub>2</sub> NaYBr <sub>6</sub> . Computational and Theoretical Chemistry, 1998, 451, 135-142.		1.5	6
76	A new interpretation of the bonding and spectroscopy of the tetraoxoferrate(VI) FeO <sub>4</sub> 2 <sup>-</sup> ion. Journal of Chemical Physics, 1998, 109, 6396-6405.		3.0	14
77	Ab initiomodel potential embedded-cluster study of the ground and lowest excited states of Cr <sup>3+</sup> defects in the elpasolites Cs <sub>2</sub> NaYCl <sub>6</sub> and Cs <sub>2</sub> NaYBr <sub>6</sub> . Journal of Chemical Physics, 1998, 108, 2005-2014.		3.0	38
78	Multiple-excited-state absorption of V <sup>2+</sup> in low-field crystals: An ab initiomodel-potential embedded-cluster study. Physical Review B, 1998, 57, 11974-11979.		3.2	10
79	Applications of the group-function theory to the field of materials science. International Journal of Quantum Chemistry, 1996, 60, 617-634.		2.0	41
80	Ab initio model potential calculations on the electronic spectrum of Ni <sup>2+</sup> -doped MgO including correlation, spin-orbit and embedding effects. Journal of Chemical Physics, 1996, 105, 5321-5330.		3.0	135
81	Ab initiomodel-potential embedded-cluster study of Jahn-Teller parameters and electronic transition energies of Cr <sup>2+</sup> in oxide and fluoride octahedral coordination. Physical Review B, 1996, 53, 1138-1145.		3.2	11
82	Excited-state absorption spectra of V <sup>2+</sup> -doped fluoroperovskites. An ab initio model potential embedded-cluster study. Journal of Chemical Physics, 1996, 105, 50-61.		3.0	17
83	Ab initio model potential embedded-cluster study of V <sup>2+</sup> -doped fluoroperovskites: Effects of different hosts on the local distortion and electronic structure of 4T2g-4A2g laser levels. Journal of Chemical Physics, 1995, 103, 2117-2125.		3.0	34
84	Ab initio model potential study of the optical absorption spectrum of Mn <sup>2+</sup> -doped CaF <sub>2</sub> . Journal of Chemical Physics, 1995, 103, 4841-4846.		3.0	12
85	Quasirelativistic ab initio model potential calculations on the group IV hydrides (XH <sub>2</sub> , XH <sub>4</sub> ;) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 56		3.0	175
86	Bonding between CO and the MgO(001) surface: A modified picture. Journal of Chemical Physics, 1994, 100, 2010-2018.		3.0	186
87	Ab initio model potential study of pressure effects on K <sub>2</sub> NaGaF <sub>6</sub> :Cr <sup>3+</sup> . Journal of Chemical Physics, 1993, 98, 4041-4046.		3.0	40
88	Ab initio model potential study of environmental effects on the Jahn-Teller parameters of Cu <sup>2+</sup> and Ag <sup>2+</sup> impurities in MgO, CaO, and SrO hosts. Journal of Chemical Physics, 1993, 98, 9715-9724.		3.0	83
89	The abinitio model potential method. Cowanâ€“Griffin relativistic core potentials and valence basis sets from Li (Z=3) to La (Z=57). Canadian Journal of Chemistry, 1992, 70, 409-415.		1.1	214
90	Self-consistent embedded clusters: Building block equations for localized orthogonal orbitals. Journal of Mathematical Chemistry, 1992, 10, 41-56.		1.5	29

#	ARTICLE	IF	CITATIONS
91	Atomic valence correlation energies from ab initio model potential calculations. <i>Chemical Physics Letters</i> , 1992, 192, 217-220.	2.6	11
92	Ab initio model potential study of the equilibrium geometry of alkaline earth dihalides: MX <sub>2</sub> (M=Mg, Ca, Sr, Ba) ETQq0 0 0 rgBT /Overlock 10 Tf	3.0	100
93	Ab initio model potential study of local distortions around Cr <sup>+</sup> and Cr <sup>3+</sup> defects in fluorite. <i>Journal of Chemical Physics</i> , 1991, 94, 8158-8164.	3.0	48
94	The ab initio model potential method. Second series transition metal elements. <i>Journal of Chemical Physics</i> , 1990, 93, 5843-5850.	3.0	86
95	The ab initio model potential method. First series transition metal elements. <i>Journal of Chemical Physics</i> , 1989, 91, 7011-7017.	3.0	80
96	The ab initio model potential representation of the crystalline environment. Theoretical study of the local distortion on NaCl:Cu+. <i>Journal of Chemical Physics</i> , 1988, 89, 5739-5746.	3.0	373
97	The ab initio model potential method. Main group elements. <i>Journal of Chemical Physics</i> , 1987, 86, 2132-2145.	3.0	245
98	Towards HF SCF value of electron affinity of SF <sub>6</sub> . <i>Journal of Chemical Physics</i> , 1987, 86, 1637-1638.	3.0	32
99	Ab initio SCF studies of the molecular structure of XeF <sub>6</sub> , IF <sub>6</sub> ?, and TeF <sub>6</sub> ? in non-octahedral geometries. <i>Theoretica Chimica Acta</i> , 1987, 71, 237-245.	0.8	24
100	Extended model potential calculations on I <sub>2</sub> and HI molecules. <i>Journal of Chemical Physics</i> , 1986, 84, 1941-1942.	3.0	7
101	Core-projection effects in near ab initio valence calculations of the electronic ground state of the octahedral CrF <sub>6</sub> . <i>Journal of Solid State Chemistry</i> , 1986, 61, 269-276.	2.9	15
102	Model potentials suitable for calculations with slater-type basis for Sc through Zn. <i>Journal of Solid State Chemistry</i> , 1986, 61, 277-292.	2.9	5
103	Structure and properties of transition-metal compounds. A systematic study of basis set effects in ab initioSCF calculations. <i>International Journal of Quantum Chemistry</i> , 1986, 29, 1047-1058.	2.0	17
104	A systematic study of basis set effects in ab initioSCF calculations: Well-tempered Gaussian-type function basis set calculations on transition metal halides. <i>Journal of Chemical Physics</i> , 1986, 84, 6315-6327.	3.0	27
105	Ab initio calculations on transition metal compounds using small minimal GTO basis sets. <i>Chemical Physics Letters</i> , 1985, 117, 151-153.	2.6	21
106	New developments in the model potential method: ScO molecule. <i>Journal of Chemical Physics</i> , 1985, 83, 4565-4572.	3.0	32
107	On the importance of an accurate representation of the Ewald potential throughout the cluster volume in the calculation of the cluster-lattice interaction. <i>Journal of Solid State Chemistry</i> , 1984, 55, 236-238.	2.9	7