

# Jun Jiang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151  
papers

4,454  
citations

32  
h-index

61  
g-index

160  
ext. papers

5,683  
ext. citations

7.1  
avg, IF

5.9  
L-index

#	Paper	IF	Citations
151	Elucidating the mechanisms determining the availability of phosphate by application of biochars from different parent materials.. <i>Environmental Geochemistry and Health</i> , <b>2022</b> , 1	4.7	0
150	A high-efficiency GeTe-based thermoelectric module for low-grade heat recovery. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 7677-7683	13	0
149	Mediating Point Defects Endows n-Type Bi Te with High Thermoelectric Performance and Superior Mechanical Robustness for Power Generation Application.. <i>Small</i> , <b>2022</b> , e2201352	11	3
148	Optimized Thermoelectric Properties of BiSbTe through AgCuTe Doping for Low-Grade Heat Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 57514-57520	9.5	2
147	Unusually high Seebeck coefficient arising from temperature-dependent carrier concentration in PbSe-AgSbSe <sub>2</sub> alloys. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 17365-17370	7.1	1
146	Efficient and Broadband LiGaP <sub>2</sub> O <sub>7</sub> :Cr <sup>3+</sup> Phosphors for Smart Near-Infrared Light-Emitting Diodes. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2100227	8.3	23
145	Improved Thermoelectric Properties of BiSbTe-AgBiSe <sub>2</sub> Alloys by Suppressing Bipolar Excitation. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2944-2950	6.1	9
144	Anomalous Thermopower and High in GeMnTe Driven by Spin-Entropy Thermodynamic Entropy. <i>Research</i> , <b>2021</b> , 2021, 1949070	7.8	0
143	Achieving High Thermoelectric Performance of n-Type BiTeSe Sintered Materials by Hot-Stacked Deformation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 15429-15436	9.5	9
142	Thermoelectric Performance Optimization and Phase Transition of GeTe by Alloying with Orthorhombic CuSbSe <sub>2</sub> . <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 4242-4247	6.1	6
141	Enhancement of Cd(II) adsorption by rice straw biochar through oxidant and acid modifications. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 42787-42797	5.1	8
140	Thermally Stable CaLu <sub>2</sub> Mg <sub>2</sub> Si <sub>3</sub> O <sub>12</sub> :Cr <sup>3+</sup> Phosphors for NIR LEDs. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100388	8.1	21
139	Effect of Ca <sup>2+</sup> - Si <sup>4+</sup> on Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce ceramic phosphors for white laser-diodes lighting. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 211902	3.4	3
138	Enhanced Thermoelectric and Mechanical Performances in Sintered BiSbTe-AgSbSe Composite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 24937-24944	9.5	8
137	The hydrothermally synthesis of K <sub>3</sub> AlF <sub>6</sub> :Cr <sup>3+</sup> NIR phosphor and its performance optimization based on phase control. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 5235-5243	3.8	2
136	Effect of paddy cultivation on the surface electrochemical properties of different-sized particles of a Gleysol. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2021</b> , 184, 471-478	2.3	
135	Application of measuring electrochemical characteristics on plant root surfaces in screening Al-tolerant wheat. <i>Environmental Pollution</i> , <b>2021</b> , 281, 116993	9.3	1

134	CaAlSiN <sub>3</sub> :Eu <sup>2+</sup> /Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> phosphor-in-glass film with high luminous efficiency and CRI for laser diode lighting. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 3522-3530	7.1	11
133	Direct Quantification of Sorption Thermodynamics of Phosphate on Four Soil Colloids through Isothermal Titration Calorimetry. <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 295-304	3.2	1
132	Refined band structure plus enhanced phonon scattering realizes thermoelectric performance optimization in CuMn codoped SnTe. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13065-13070	13	10
131	High Efficiency Green-Emitting LuAG:Ce Ceramic Phosphors for Laser Diode Lighting. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2002141	8.1	14
130	Inhibition of phosphate sorptions on four soil colloids by two bacteria. <i>Environmental Pollution</i> , <b>2021</b> , 290, 118001	9.3	0
129	Synergistically Optimized Thermoelectric and Mechanical Properties in p-Type BiSbTe by a Microdroplet Deposition Technique. <i>Energy Technology</i> , <b>2021</b> , 9, 2001024	3.5	1
128	Dramatically enhanced Seebeck coefficient in GeMnTe-NaBiTe alloys by tuning the Spin $\bar{\Gamma}$ thermodynamic entropy. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 17866-17872	3.6	0
127	Strategies to approach high performance in Cr-doped phosphors for high-power NIR-LED light sources. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 86	16.7	170
126	Understanding the Band Engineering in Mg <sub>2</sub> Si-Based Systems from Wannier-Orbital Analysis. <i>Annalen Der Physik</i> , <b>2020</b> , 532, 1900543	2.6	3
125	A far-red-emitting (Gd,Y) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> :Mn <sup>2+</sup> ceramic phosphor with enhanced thermal stability for plant cultivation. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 5157-5168	3.8	6
124	Isothermal titration calorimetry as a useful tool to examine adsorption mechanisms of phosphate on gibbsite at various solution conditions. <i>Soil Science Society of America Journal</i> , <b>2020</b> , 84, 1110-1124	2.5	3
123	Effects of crop straw biochars on aluminum species in soil solution as related with the growth and yield of canola ( <i>Brassica napus</i> L.) in an acidic Ultisol under field condition. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 30178-30189	5.1	6
122	Enhancing phosphorus availability in two variable charge soils by the amendments of crop straw biochars. <i>Arabian Journal of Geosciences</i> , <b>2020</b> , 13, 1	1.8	2
121	Effect of aluminum modification of rice straw based biochar on arsenate adsorption. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 3073-3082	3.4	12
120	YAG:Ce Transparent Ceramic Phosphors Brighten the Next-Generation Laser-Driven Lighting. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907888	24	127
119	Fermi-surface dynamics and high thermoelectric performance along the out-of-plane direction in n-type SnSe crystals. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 616-621	35.4	21
118	Achieving high-performance p-type SmMg <sub>2</sub> Bi <sub>2</sub> thermoelectric materials through band engineering and alloying effects. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15760-15766	13	9
117	The mechanisms underlying the reduction in aluminum toxicity and improvements in the yield of sweet potato ( <i>Ipomoea batatas</i> L.) After organic and inorganic amendment of an acidic ultisol. <i>Agriculture, Ecosystems and Environment</i> , <b>2020</b> , 288, 106716	5.7	11

116	Broadband emissions from Lu <sub>2</sub> Mg <sub>2</sub> Al <sub>2</sub> Si <sub>2</sub> O <sub>12</sub> :Ce <sup>3+</sup> plate ceramic phosphors enable a high color-rendering index for laser-driven lighting. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1405-1412	7.1	22
115	Biochars derived from crop straws increased the availability of applied phosphorus fertilizer for maize in Ultisol and Oxisol. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 5511-5522	5.1	7
114	The amelioration effects of canola straw biochar on Ultisol acidity varied with the soil in which the feedstock crop was cultivated. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 1424-1434	3.4	3
113	Effect of ferrolysis and organic matter accumulation on chromate adsorption characteristics of an Oxisol-derived paddy soil. <i>Science of the Total Environment</i> , <b>2020</b> , 744, 140868	10.2	2
112	Enhanced Thermoelectric Properties of p-Type BiSbTe/SbTe Composite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 52922-52928	9.5	10
111	Exceptional plasticity in the bulk single-crystalline van der Waals semiconductor InSe. <i>Science</i> , <b>2020</b> , 369, 542-545	33.3	60
110	Characteristics of crop straw-decayed products and their ameliorating effects on an acidic Ultisol. <i>Archives of Agronomy and Soil Science</i> , <b>2020</b> , 1-14	2	5
109	BiZn codoping in GeTe synergistically enhances band convergence and phonon scattering for high thermoelectric performance. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 21642-21648	13	18
108	Boosted carrier mobility and enhanced thermoelectric properties of polycrystalline Na <sub>0.03</sub> Sn <sub>0.97</sub> Se by liquid-phase hot deformation. <i>Materials Advances</i> , <b>2020</b> , 1, 1092-1098	3.3	2
107	Investigating the thermoelectric performance of n-type SnSe: the synergistic effect of NbCl <sub>5</sub> doping and dislocation engineering. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13244-13252	7.1	9
106	Mechanism of Cu(II) and Cd(II) immobilization by extracellular polymeric substances ( <i>Escherichia coli</i> ) on variable charge soils. <i>Environmental Pollution</i> , <b>2019</b> , 247, 136-145	9.3	26
105	Full spectrum core-shell phosphors under ultraviolet excitation. <i>Chemical Communications</i> , <b>2019</b> , 55, 12188-12191	5.8	3
104	Paddy Cultivation Significantly Alters Phosphorus Sorption Characteristics and Loss Risk in a Calcareous Paddy Soil Chronosequence. <i>Soil Science Society of America Journal</i> , <b>2019</b> , 83, 575-583	2.5	4
103	Optimized orientation and enhanced thermoelectric performance in Sn <sub>0.97</sub> Na <sub>0.03</sub> Se with Te addition. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 2653-2658	7.1	13
102	Super Large SnSe Single Crystals with Excellent Thermoelectric Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 8051-8059	9.5	27
101	Adhesion mediated transport of bacterial pathogens in saturated sands coated by phyllosilicates and Al-oxides. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 181, 215-225	6	2
100	Ultralow Lattice Thermal Conductivity in SnTe by Manipulating the Electron-Phonon Coupling. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 15996-16002	3.8	22
99	Transparent Ceramics Enabling High Luminous Flux and Efficacy for the Next-Generation High-Power LED Light. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21697-21701	9.5	23

98	Evolution of soil surface charge in a chronosequence of paddy soil derived from Alfisol. <i>Soil and Tillage Research</i> , <b>2019</b> , 192, 144-150	6.5	8
97	Thermoelectric (Bi,Sb) <sub>2</sub> Te <sub>3</sub> Ce <sub>0.5</sub> Mn <sub>0.5</sub> Te composites with excellent mechanical properties. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9241-9246	13	28
96	Band engineering and crystal field screening in thermoelectric Mg <sub>3</sub> Sb <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8922-8928	13	20
95	YAGG:Ce transparent ceramics with high luminous efficiency for solid-state lighting application. <i>Journal of Advanced Ceramics</i> , <b>2019</b> , 8, 389-398	10.7	27
94	Texture Development and Grain Alignment of Hot-Pressed Tetradymite Bi <sub>0.48</sub> Sb <sub>1.52</sub> Te <sub>3</sub> via Powder Molding. <i>Energy Technology</i> , <b>2019</b> , 7, 1900814	3.5	8
93	Warm White Light with a High Color-Rendering Index from a Single GdAlGaO:Ce Transparent Ceramic for High-Power LEDs and LDs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2130-2139	9.5	80
92	Alleviation of aluminum phytotoxicity by canola straw biochars varied with their cultivating soils through an investigation of wheat seedling root elongation. <i>Chemosphere</i> , <b>2019</b> , 218, 907-914	8.4	14
91	Investigation on structure and thermoelectric properties in p-type Bi <sub>0.48</sub> Sb <sub>1.52</sub> Te <sub>3</sub> via PbTe incorporating. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 7701-7706	2.1	9
90	Effect of tea polyphenols on copper adsorption and manganese release in two variable-charge soils. <i>Journal of Geochemical Exploration</i> , <b>2018</b> , 190, 374-380	3.8	1
89	Peanut straw biochar increases the resistance of two Ultisols derived from different parent materials to acidification: A mechanism study. <i>Journal of Environmental Management</i> , <b>2018</b> , 210, 171-179	7.9	29
88	Charge Transport in Thermoelectric SnSe Single Crystals. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 689-694	20.1	30
87	Incorporation of corn straw biochar inhibited the re-acidification of four acidic soils derived from different parent materials. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 9662-9672	5.1	27
86	Tunable luminescent spectra via energy transfers between different lattice sites in Ce <sup>3+</sup> , Mn <sup>2+</sup> codoped Ba <sub>9</sub> Lu <sub>2</sub> Si <sub>6</sub> O <sub>24</sub> phosphors for NUV-based warm white LED applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 4547-4556	2.1	4
85	Critical pH and exchangeable Al of four acidic soils derived from different parent materials for maize crops. <i>Journal of Soils and Sediments</i> , <b>2018</b> , 18, 1490-1499	3.4	15
84	Preferential adhesion of surface groups of <i>Bacillus subtilis</i> on gibbsite at different ionic strengths and pHs revealed by ATR-FTIR spectroscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 165, 83-91	6	13
83	Paddy cultivation significantly alters the forms and contents of Fe oxides in an Oxisol and increases phosphate mobility. <i>Soil and Tillage Research</i> , <b>2018</b> , 184, 176-180	6.5	14
82	Amelioration of soil acidity, Olsen-P, and phosphatase activity by manure- and peat-derived biochars in different acidic soils. <i>Arabian Journal of Geosciences</i> , <b>2018</b> , 11, 1	1.8	23
81	Thermoelectric properties of textured polycrystalline Na <sub>0.03</sub> Sn <sub>0.97</sub> Se enhanced by hot deformation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23730-23735	13	24

80	Massive red-shifting of Ce <sup>3+</sup> emission by Mg <sup>2+</sup> and Si <sup>4+</sup> doping of YAG:Ce transparent ceramic phosphors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12200-12205	7.1	48
79	Enhanced thermoelectric performance in p-type polycrystalline SnSe by Cu doping. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 18727-18732	2.1	9
78	Effect of different phosphorus sources on soybean growth and arsenic uptake under arsenic stress conditions in an acidic ultisol. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 165, 11-18	7	15
77	Effect of low energy-consuming biochars in combination with nitrate fertilizer on soil acidity amelioration and maize growth. <i>Journal of Soils and Sediments</i> , <b>2017</b> , 17, 790-799	3.4	21
76	Amelioration of an acidic ultisol by straw-derived biochars combined with dicyandiamide under application of urea. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 6698-6709	5.1	10
75	Manipulating Band Convergence and Resonant State in Thermoelectric Material SnTe by Mn <sup>2+</sup> Codoping. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1203-1207	20.1	65
74	Improving Thermoelectric Performance of BiMgAgSb by Theoretical Band Engineering Design. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700076	21.8	32
73	Highly transparent cerium doped gadolinium gallium aluminum garnet ceramic prepared with precursors fabricated by ultrasonic enhanced chemical co-precipitation. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 39, 792-797	8.9	6
72	Enhanced thermoelectric performance in n-type polycrystalline SnSe by PbBr <sub>2</sub> doping. <i>RSC Advances</i> , <b>2017</b> , 7, 17906-17912	3.7	30
71	Evaluation of ferrolysis in arsenate adsorption on the paddy soil derived from an Oxisol. <i>Chemosphere</i> , <b>2017</b> , 179, 232-241	8.4	38
70	Study on Thermoelectric Properties of Polycrystalline SnSe by Ge Doping. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 3182-3186	1.9	24
69	An excellent cyan-emitting orthosilicate phosphor for NUV-pumped white LED application. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 12365-12377	7.1	138
68	Texturing degree boosts thermoelectric performance of silver-doped polycrystalline SnSe. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e426-e426	10.3	38
67	Mechanisms for Increasing the pH Buffering Capacity of an Acidic Ultisol by Crop Residue-Derived Biochars. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 8111-8119	5.7	61
66	Thermoelectric properties of CoSb <sub>3</sub> and CoSb <sub>3</sub> /SiC composites prepared by mechanical alloying and microwave sintering. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 10509-10515	2.1	3
65	Optimizing the thermoelectric performance of In <sub>2</sub> Te codoped SnTe by introducing Sn vacancies. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7504-7509	7.1	29
64	Single Crystal Structure Study of Type I Clathrate (K <sub>8</sub> Zn <sub>4</sub> Sn <sub>42</sub> ) and (K <sub>8</sub> In <sub>8</sub> Sn <sub>38</sub> ). <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2765-2769	1.9	2
63	In-situ ATR-FTIR spectroscopic investigation of desorption of phosphate from haematite by bacteria. <i>European Journal of Soil Science</i> , <b>2017</b> , 68, 480-490	3.4	3



62	Characteristics of biomass ashes from different materials and their ameliorative effects on acid soils. <i>Journal of Environmental Sciences</i> , <b>2017</b> , 55, 294-302	6.4	21
61	Stabilization of Thermoelectric Properties of the Cu/Bi <sub>0.48</sub> Sb <sub>1.52</sub> Te <sub>3</sub> Composite for Advantageous Power Generation. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2746-2751	1.9	8
60	Competition between bacteria and phosphate for adsorption sites on gibbsite: An in-situ ATR-FTIR spectroscopic and macroscopic study. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 148, 496-502	6	10
59	A first-principles study on the phonon transport in layered BiCuOSe. <i>Scientific Reports</i> , <b>2016</b> , 6, 21035	4.9	44
58	Water-mediated cation intercalation of open-framework indium hexacyanoferrate with high voltage and fast kinetics. <i>Nature Communications</i> , <b>2016</b> , 7, 11982	17.4	73
57	A Direct Method to Extract Transient Sub-Gap Density of State (DOS) Based on Dual Gate Pulse Spectroscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 24096	4.9	9
56	High Efficiency Green Phosphor Ba <sub>9</sub> Lu <sub>2</sub> Si <sub>6</sub> O <sub>24</sub> :Tb <sup>3+</sup> : Visible Quantum Cutting via Cross-Relaxation Energy Transfers. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 2362-2370	3.8	78
55	Enhanced thermopower in rock-salt SnTe <sub>1-x</sub> Te <sub>x</sub> from band convergence. <i>RSC Advances</i> , <b>2016</b> , 6, 32189-32192	3.92	56
54	Effect of Yb(3+) on the Crystal Structural Modification and Photoluminescence Properties of GGAG:Ce(3+). <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 3040-6	5.1	22
53	Enhanced thermoelectric performance in p-type polycrystalline SnSe benefiting from texture modulation. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1201-1207	7.1	112
52	YAG phosphor with spatially separated luminescence centers. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 244-247	7.1	9
51	Adsorption Properties of Subtropical and Tropical Variable Charge Soils: Implications from Climate Change and Biochar Amendment. <i>Advances in Agronomy</i> , <b>2016</b> , 135, 1-58	7.7	41
50	Synergistic Optimization of Thermoelectric Performance in P-Type Bi <sub>0.48</sub> Sb <sub>1.52</sub> Te <sub>3</sub> /Graphene Composite. <i>Energies</i> , <b>2016</b> , 9, 236	3.1	24
49	Relative abundance of chemical forms of Cu(II) and Cd(II) on soybean roots as influenced by pH, cations and organic acids. <i>Scientific Reports</i> , <b>2016</b> , 6, 36373	4.9	14
48	Origin and Luminescence of Anomalous Red-Emitting Center in Rhombohedral Ba <sub>9</sub> Lu <sub>2</sub> Si <sub>6</sub> O <sub>24</sub> :Eu(2+) Blue Phosphor. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 8628-35	5.1	35
47	Interactions Between Escherchia coli and the Colloids of Three Variable Charge Soils and Their Effects on Soil Surface Charge Properties. <i>Geomicrobiology Journal</i> , <b>2015</b> , 32, 511-520	2.5	12
46	Enhanced power factor in the promising thermoelectric material SnPbxTe prepared via zone-melting. <i>RSC Advances</i> , <b>2015</b> , 5, 59379-59383	3.7	13
45	Preparation and Optical Properties of Transparent (Ce,Gd) <sub>3</sub> Al <sub>3</sub> Ga <sub>2</sub> O <sub>12</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2352-2356	3.8	25

44	Ba <sub>9</sub> Lu <sub>2</sub> Si <sub>6</sub> O <sub>24</sub> :Ce <sup>3+</sup> : An Efficient Green Phosphor with High Thermal and Radiation Stability for Solid-State Lighting. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 1096-1101	8.1	127
43	Red-Emitting Phosphor Ba <sub>9</sub> Lu <sub>2</sub> Si <sub>6</sub> O <sub>24</sub> :Ce <sup>3+</sup> ,Mn <sup>2+</sup> with Enhanced Energy Transfer via Self-Charge Compensation. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 24558-24563	3.8	62
42	Arsenate Adsorption from Aqueous Solution onto Fe(III)-Modified Crop Straw Biochars. <i>Environmental Engineering Science</i> , <b>2015</b> , 32, 922-929	2	16
41	Structure and thermoelectric properties of the n-type clathrate Ba <sub>8</sub> Cu <sub>5.1</sub> Ge <sub>40.2</sub> Sn <sub>0.7</sub> . <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19100-19106	13	14
40	Valence band engineering and thermoelectric performance optimization in SnTe by Mn-alloying via a zone-melting method. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19974-19979	13	120
39	Rice Straw-Derived Biochar Properties and Functions as Cu(II) and Cyromazine Sorbents as Influenced by Pyrolysis Temperature. <i>Pedosphere</i> , <b>2015</b> , 25, 781-789	5	27
38	Mobilization of phosphate in variable-charge soils amended with biochars derived from crop straws. <i>Soil and Tillage Research</i> , <b>2015</b> , 146, 139-147	6.5	71
37	Removal of Cr(VI) from aqueous solutions by Na <sub>2</sub> SO <sub>3</sub> /FeSO <sub>4</sub> combined with peanut straw biochar. <i>Chemosphere</i> , <b>2014</b> , 101, 71-6	8.4	72
36	Enhanced thermoelectric figure of merit in p-type Bi <sub>0.48</sub> Sb <sub>1.52</sub> Te <sub>3</sub> alloy with WSe <sub>2</sub> addition. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8512	13	46
35	The Effects of Cation Concentration in the Salt Solution on the Cerium Doped Gadolinium Gallium Aluminum Oxide Nanopowders Prepared by a Co-precipitation Method. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 301-305	1.7	3
34	Co-Precipitation Synthesis of Gadolinium Aluminum Gallium Oxide (GAGG) via Different Precipitants. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 306-311	1.7	3
33	Thermoelectric Properties of CdTe <sub>1-x</sub> Cl <sub>x</sub> Material Prepared by Spark Plasma Sintering Method. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 3087-3091	1.9	1
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31	Inhibiting Effect of Dicyandiamide on Soil Acidification Induced by Application of Urea or Ammonium Bicarbonate. <i>Communications in Soil Science and Plant Analysis</i> , <b>2014</b> , 45, 1823-1830	1.5	3
30	Effect of Crop-Straw Derived Biochars on Pb(II) Adsorption in Two Variable Charge Soils. <i>Journal of Integrative Agriculture</i> , <b>2014</b> , 13, 507-516	3.2	20
29	Effect of dehydrated-attapulgite nanoinclusions on the thermoelectric properties of BiSbTe alloys. <i>RSC Advances</i> , <b>2013</b> , 3, 4951	3.7	11
28	Adhesion of Escherichia coli to nano-Fe/Al oxides and its effect on the surface chemical properties of Fe/Al oxides. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 110, 289-95	6	22
27	Thermoelectric performance of the ordered In <sub>4</sub> Se <sub>3</sub> In composite constructed by monotectic solidification. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8844	13	18



26	Adsorption of Cr(III) from acidic solutions by crop straw derived biochars. <i>Journal of Environmental Sciences</i> , <b>2013</b> , 25, 1957-65	6.4	91
25	Enhanced thermoelectric figure of merit in p-type BiSbTeSe alloy with ZnSb addition. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 966-969	13	28
24	Application of crop straw derived biochars to Cu(II) contaminated Ultisol: evaluating role of alkali and organic functional groups in Cu(II) immobilization. <i>Bioresource Technology</i> , <b>2013</b> , 133, 537-45	11	81
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21	pH buffering capacity of acid soils from tropical and subtropical regions of China as influenced by incorporation of crop straw biochars. <i>Journal of Soils and Sediments</i> , <b>2012</b> , 12, 494-502	3.4	171
20	Adsorption of chromate on variable charge soils as influenced by ionic strength. <i>Environmental Earth Sciences</i> , <b>2012</b> , 66, 1155-1162	2.9	9
19	Adsorption of Pb(II) on variable charge soils amended with rice-straw derived biochar. <i>Chemosphere</i> , <b>2012</b> , 89, 249-56	8.4	247
18	Enhanced thermoelectric performance in In <sub>1-x</sub> Ga <sub>x</sub> Sb originating from the scattering of point defects and nano-inclusion. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 12398		32
17	Surface chemical properties and pedogenesis of tropical soils derived from basalts with different ages in Hainan, China. <i>Catena</i> , <b>2011</b> , 87, 334-340	5.8	21
16	Nano-scaled top-down of bismuth chalcogenides based on electrochemical lithium intercalation. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 6569-6578	2.3	9
15	Effects of Amorphous Al(OH) <sub>3</sub> on the Desorption of Ca <sup>2+</sup> , Mg <sup>2+</sup> , and Na <sup>+</sup> from Soils and Minerals As Related to Diffuse Layer Overlapping. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 2536-2542	2.8	12
14	Effect of Ionic Strength on Specific Adsorption of Ions by Variable Charge Soils: Experimental Testification on the Adsorption Model of Bowden et al. <b>2010</b> , 78-80		3
13	Comparison of the surface chemical properties of four soils derived from Quaternary red earth as related to soil evolution. <i>Catena</i> , <b>2010</b> , 80, 154-161	5.8	21
12	Effect of Ionic Strength and Mechanism of Cu(II) Adsorption by Goethite and FeAl <sub>2</sub> O <sub>3</sub> . <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 5547-5552	2.8	14
11	Adsorption and desorption of Cu(II) and Cd(II) in the tropical soils during pedogenesis in the basalt from Hainan, China. <i>Carbonates and Evaporites</i> , <b>2010</b> , 25, 27-34	1.3	16
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8	Wien Effect Characterization of Interactions Between Ions and Charged Sites on Clay Surfaces of Variable-Charge Soils. <i>Pedosphere</i> , <b>2009</b> , 19, 545-553	5	3
7	Phosphate adsorption at variable charge soil/water interfaces as influenced by ionic strength. <i>Soil Research</i> , <b>2009</b> , 47, 529	1.8	14
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4	An elongation method for first principle simulations of electronic structures and electron transport properties of finite nanostructures. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 214711	3.9	25
3	Interactions of Heavy Metal Ions with Paddy Soils as Inferred from Wien Effect Measurements in Dilute Suspensions. <i>Pedosphere</i> , <b>2006</b> , 16, 718-725	5	5
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1	Boosting the Thermoelectric Performance of PbSe from the Band Convergence Driven By Spin-Orbit Coupling. <i>Advanced Energy Materials</i> , 2103287	21.8	2