Jun Jiang

List of Publications by Citations

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	Immobilization of Cu(II), Pb(II) and Cd(II) by the addition of rice straw derived biochar to a simulated polluted Ultisol. *Journal of Hazardous Materials*, **2012**, 229-230, 145-50	12.8	366
150	Adsorption of Pb(II) on variable charge soils amended with rice-straw derived biochar. *Chemosphere* , **2012**, 89, 249-56	8.4	247
149	pH buffering capacity of acid soils from tropical and subtropical regions of China as influenced by incorporation of crop straw biochars. *Journal of Soils and Sediments*, **2012**, 12, 494-502	3.4	171
148	Strategies to approach high performance in Cr-doped phosphors for high-power NIR-LED light sources. *Light: Science and Applications*, **2020**, 9, 86	16.7	170
147	An excellent cyan-emitting orthosilicate phosphor for NUV-pumped white LED application. *Journal of Materials Chemistry C*, **2017**, 5, 12365-12377	7.1	138
146	Ba9Lu2Si6O24:Ce3+: An Efficient Green Phosphor with High Thermal and Radiation Stability for Solid-State Lighting. *Advanced Optical Materials*, **2015**, 3, 1096-1101	8.1	127
145	YAG:Ce Transparent Ceramic Phosphors Brighten the Next-Generation Laser-Driven Lighting. *Advanced Materials*, **2020**, 32, e1907888	24	127
144	Valence band engineering and thermoelectric performance optimization in SnTe by Mn-alloying via a zone-melting method. *Journal of Materials Chemistry A*, **2015**, 3, 19974-19979	13	120
143	Enhanced thermoelectric performance in p-type polycrystalline SnSe benefiting from texture modulation. *Journal of Materials Chemistry C*, **2016**, 4, 1201-1207	7.1	112
142	Adsorption of Cr(III) from acidic solutions by crop straw derived biochars. *Journal of Environmental Sciences*, **2013**, 25, 1957-65	6.4	91
141	Agro-C: A biogeophysical model for simulating the carbon budget of agroecosystems. *Agricultural and Forest Meteorology*, **2009**, 149, 106-129	5.8	83
140	Application of crop straw derived biochars to Cu(II) contaminated Ultisol: evaluating role of alkali and organic functional groups in Cu(II) immobilization. *Bioresource Technology*, **2013**, 133, 537-45	11	81
139	Adsorption and desorption of Cu(II) and Pb(II) in paddy soils cultivated for various years in the subtropical China. *Journal of Environmental Sciences*, **2010**, 22, 689-95	6.4	81
138	Warm White Light with a High Color-Rendering Index from a Single GdAlGaO:Ce Transparent Ceramic for High-Power LEDs and LDs. *ACS Applied Materials & Interfaces*, **2019**, 11, 2130-2139	9.5	80
137	First-principles simulations of inelastic electron tunneling spectroscopy of molecular electronic devices. *Nano Letters*, **2005**, 5, 1551-5	11.5	79
136	High Efficiency Green Phosphor Ba9Lu2Si6O24:Tb3+: Visible Quantum Cutting via Cross-Relaxation Energy Transfers. *Journal of Physical Chemistry C*, **2016**, 120, 2362-2370	3.8	78
135	Water-mediated cation intercalation of open-framework indium hexacyanoferrate with high voltage and fast kinetics. *Nature Communications*, **2016**, 7, 11982	17.4	73

134	Removal of Cr(VI) from aqueous solutions by Na2SO3/FeSO4 combined with peanut straw biochar. *Chemosphere*, **2014**, 101, 71-6	8.4	72
133	Mobilization of phosphate in variable-charge soils amended with biochars derived from crop straws. *Soil and Tillage Research*, **2015**, 146, 139-147	6.5	71
132	Manipulating Band Convergence and Resonant State in Thermoelectric Material SnTe by Mn□h Codoping. *ACS Energy Letters*, **2017**, 2, 1203-1207	20.1	65
131	Red-Emitting Phosphor Ba9Lu2Si6O24:Ce3+,Mn2+ with Enhanced Energy Transfer via Self-Charge Compensation. *Journal of Physical Chemistry C*, **2015**, 119, 24558-24563	3.8	62
130	Mechanisms for Increasing the pH Buffering Capacity of an Acidic Ultisol by Crop Residue-Derived Biochars. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 8111-8119	5.7	61
129	Exceptional plasticity in the bulk single-crystalline van der Waals semiconductor InSe. *Science*, **2020**, 369, 542-545	33.3	60
128	Enhanced thermopower in rock-salt SnTe□dTe from band convergence. *RSC Advances*, **2016**, 6, 32189-32192	3.7	56
127	The mechanism of chromate sorption by three variable charge soils. *Chemosphere*, **2008**, 71, 1469-75	8.4	54
126	Massive red-shifting of Ce3+ emission by Mg2+ and Si4+ doping of YAG:Ce transparent ceramic phosphors. *Journal of Materials Chemistry C*, **2018**, 6, 12200-12205	7.1	48
125	Enhanced thermoelectric figure of merit in p-type Bi0.48Sb1.52Te3 alloy with WSe2 addition. *Journal of Materials Chemistry A*, **2014**, 2, 8512	13	46
124	A first-principles study on the phonon transport in layered BiCuOSe. *Scientific Reports*, **2016**, 6, 21035	4.9	44
123	Adsorption Properties of Subtropical and Tropical Variable Charge Soils: Implications from Climate Change and Biochar Amendment. *Advances in Agronomy*, **2016**, 135, 1-58	7.7	41
122	Evaluation of ferrolysis in arsenate adsorption on the paddy soil derived from an Oxisol. *Chemosphere*, **2017**, 179, 232-241	8.4	38
121	Texturing degree boosts thermoelectric performance of silver-doped polycrystalline SnSe. *NPG Asia Materials*, **2017**, 9, e426-e426	10.3	38
120	Origin and Luminescence of Anomalous Red-Emitting Center in Rhombohedral Ba9Lu2Si6O24:Eu(2+) Blue Phosphor. *Inorganic Chemistry*, **2016**, 55, 8628-35	5.1	35
119	Improving Thermoelectric Performance of □MgAgSb by Theoretical Band Engineering Design. *Advanced Energy Materials*, **2017**, 7, 1700076	21.8	32
118	Enhanced thermoelectric performance in In1□xGaxSb originating from the scattering of point defects and nanoinclusion. *Journal of Materials Chemistry*, **2011**, 21, 12398		32
117	Enhanced thermoelectric performance in n-type polycrystalline SnSe by PbBr2 doping. *RSC Advances*, **2017**, 7, 17906-17912	3.7	30

116	Charge Transport in Thermoelectric SnSe Single Crystals. *ACS Energy Letters*, **2018**, 3, 689-694	20.1	30
115	Peanut straw biochar increases the resistance of two Ultisols derived from different parent materials to acidification: A mechanism study. *Journal of Environmental Management*, **2018**, 210, 171-179	7.9	29
114	Optimizing the thermoelectric performance of In□d codoped SnTe by introducing Sn vacancies. *Journal of Materials Chemistry C*, **2017**, 5, 7504-7509	7.1	29
113	Thermoelectric (Bi,Sb)2Te3□e0.5Mn0.5Te composites with excellent mechanical properties. *Journal of Materials Chemistry A*, **2019**, 7, 9241-9246	13	28
112	Enhanced thermoelectric figure of merit in p-type BiSbTeSe alloy with ZnSb addition. *Journal of Materials Chemistry A*, **2013**, 1, 966-969	13	28
111	Super Large SnSe Single Crystals with Excellent Thermoelectric Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 8051-8059	9.5	27
110	Rice Straw-Derived Biochar Properties and Functions as Cu(II) and Cyromazine Sorbents as Influenced by Pyrolysis Temperature. *Pedosphere*, **2015**, 25, 781-789	5	27
109	Incorporation of corn straw biochar inhibited the re-acidification of four acidic soils derived from different parent materials. *Environmental Science and Pollution Research*, **2018**, 25, 9662-9672	5.1	27
108	YAGG:Ce transparent ceramics with high luminous efficiency for solid-state lighting application. *Journal of Advanced Ceramics*, **2019**, 8, 389-398	10.7	27
107	Mechanism of Cu(II) and Cd(II) immobilization by extracellular polymeric substances (Escherichia coli) on variable charge soils. *Environmental Pollution*, **2019**, 247, 136-145	9.3	26
106	Preparation and Optical Properties of Transparent (Ce,Gd)3Al3Ga2O12 Ceramics. *Journal of the American Ceramic Society*, **2015**, 98, 2352-2356	3.8	25
105	An elongation method for first principle simulations of electronic structures and electron transport properties of finite nanostructures. *Journal of Chemical Physics*, **2006**, 124, 214711	3.9	25
104	Study on Thermoelectric Properties of Polycrystalline SnSe by Ge Doping. *Journal of Electronic Materials*, **2017**, 46, 3182-3186	1.9	24
103	Synergistic Optimization of Thermoelectric Performance in P-Type Bi0.48Sb1.52Te3/Graphene Composite. *Energies*, **2016**, 9, 236	3.1	24
102	Thermoelectric properties of textured polycrystalline Na0.03Sn0.97Se enhanced by hot deformation. *Journal of Materials Chemistry A*, **2018**, 6, 23730-23735	13	24
101	Transparent Ceramics Enabling High Luminous Flux and Efficacy for the Next-Generation High-Power LED Light. *ACS Applied Materials & Interfaces*, **2019**, 11, 21697-21701	9.5	23
100	Amelioration of soil acidity, Olsen-P, and phosphatase activity by manure- and peat-derived biochars in different acidic soils. *Arabian Journal of Geosciences*, **2018**, 11, 1	1.8	23
99	Efficient and Broadband LiGaP2O7:Cr3+ Phosphors for Smart Near-Infrared Light-Emitting Diodes. *Laser and Photonics Reviews*, **2021**, 15, 2100227	8.3	23

98	Ultralow Lattice Thermal Conductivity in SnTe by Manipulating the Electron□Phonon Coupling. *Journal of Physical Chemistry C*, **2019**, 123, 15996-16002	3.8	22
97	Effect of Yb(3+) on the Crystal Structural Modification and Photoluminescence Properties of GGAG:Ce(3+). *Inorganic Chemistry*, **2016**, 55, 3040-6	5.1	22
96	Adhesion of Escherichia coli to nano-Fe/Al oxides and its effect on the surface chemical properties of Fe/Al oxides. *Colloids and Surfaces B: Biointerfaces*, **2013**, 110, 289-95	6	22
95	Broadband emissions from Lu2Mg2Al2Si2O12:Ce3+ plate ceramic phosphors enable a high color-rendering index for laser-driven lighting. *Journal of Materials Chemistry C*, **2020**, 8, 1405-1412	7.1	22
94	Effect of low energy-consuming biochars in combination with nitrate fertilizer on soil acidity amelioration and maize growth. *Journal of Soils and Sediments*, **2017**, 17, 790-799	3.4	21
93	Fermi-surface dynamics and high thermoelectric performance along the out-of-plane direction in n-type SnSe crystals. *Energy and Environmental Science*, **2020**, 13, 616-621	35.4	21
92	Characteristics of biomass ashes from different materials and their ameliorative effects on acid soils. *Journal of Environmental Sciences*, **2017**, 55, 294-302	6.4	21
91	Surface chemical properties and pedogenesis of tropical soils derived from basalts with different ages in Hainan, China. *Catena*, **2011**, 87, 334-340	5.8	21
90	Comparison of the surface chemical properties of four soils derived from Quaternary red earth as related to soil evolution. *Catena*, **2010**, 80, 154-161	5.8	21
89	Thermally Stable CaLu2Mg2Si3O12:Cr3+ Phosphors for NIR LEDs. *Advanced Optical Materials*, **2021**, 9, 2100388	8.1	21
88	Band engineering and crystal field screening in thermoelectric Mg3Sb2. *Journal of Materials Chemistry A*, **2019**, 7, 8922-8928	13	20
87	Effect of Crop-Straw Derived Biochars on Pb(II) Adsorption in Two Variable Charge Soils. *Journal of Integrative Agriculture*, **2014**, 13, 507-516	3.2	20
86	Thermoelectric performance of the ordered In4Se3□h composite constructed by monotectic solidification. *Journal of Materials Chemistry A*, **2013**, 1, 8844	13	18
85	Bi□n codoping in GeTe synergistically enhances band convergence and phonon scattering for high thermoelectric performance. *Journal of Materials Chemistry A*, **2020**, 8, 21642-21648	13	18
84	Arsenate Adsorption from Aqueous Solution onto Fe(III)-Modified Crop Straw Biochars. *Environmental Engineering Science*, **2015**, 32, 922-929	2	16
83	Adsorption and desorption of Cu(II) and Cd(II) in the tropical soils during pedogenesis in the basalt from Hainan, China. *Carbonates and Evaporites*, **2010**, 25, 27-34	1.3	16
82	Critical pH and exchangeable Al of four acidic soils derived from different parent materials for maize crops. *Journal of Soils and Sediments*, **2018**, 18, 1490-1499	3.4	15
81	Effect of different phosphorus sources on soybean growth and arsenic uptake under arsenic stress conditions in an acidic ultisol. *Ecotoxicology and Environmental Safety*, **2018**, 165, 11-18	7	15

80	Structure and thermoelectric properties of the n-type clathrate Ba8Cu5.1Ge40.2Sn0.7. *Journal of Materials Chemistry A*, **2015**, 3, 19100-19106	13	14
79	Paddy cultivation significantly alters the forms and contents of Fe oxides in an Oxisol and increases phosphate mobility. *Soil and Tillage Research*, **2018**, 184, 176-180	6.5	14
78	Effect of Ionic Strength and Mechanism of Cu(II) Adsorption by Goethite and γ-Al2O3. *Journal of Chemical & Engineering Data*, **2010**, 55, 5547-5552	2.8	14
77	Phosphate adsorption at variable charge soil/water interfaces as influenced by ionic strength. *Soil Research*, **2009**, 47, 529	1.8	14
76	Relative abundance of chemical forms of Cu(II) and Cd(II) on soybean roots as influenced by pH, cations and organic acids. *Scientific Reports*, **2016**, 6, 36373	4.9	14
75	Alleviation of aluminum phytotoxicity by canola straw biochars varied with their cultivating soils through an investigation of wheat seedling root elongation. *Chemosphere*, **2019**, 218, 907-914	8.4	14
74	High Efficiency Green-Emitting LuAG:Ce Ceramic Phosphors for Laser Diode Lighting. *Advanced Optical Materials*, **2021**, 9, 2002141	8.1	14
73	Optimized orientation and enhanced thermoelectric performance in Sn0.97Na0.03Se with Te addition. *Journal of Materials Chemistry C*, **2019**, 7, 2653-2658	7.1	13
72	Enhanced power factor in the promising thermoelectric material SnPbxTe prepared via zone-melting. *RSC Advances*, **2015**, 5, 59379-59383	3.7	13
71	Preferential adhesion of surface groups of Bacillus subtilis on gibbsite at different ionic strengths and pHs revealed by ATR-FTIR spectroscopy. *Colloids and Surfaces B: Biointerfaces*, **2018**, 165, 83-91	6	13
70	Interactions Between Escherchia coli and the Colloids of Three Variable Charge Soils and Their Effects on Soil Surface Charge Properties. *Geomicrobiology Journal*, **2015**, 32, 511-520	2.5	12
69	Effect of aluminum modification of rice straw-based biochar on arsenate adsorption. *Journal of Soils and Sediments*, **2020**, 20, 3073-3082	3.4	12
68	Effects of Amorphous Al(OH)3 on the Desorption of Ca2+, Mg2+, and Na+ from Soils and Minerals As Related to Diffuse Layer Overlapping. *Journal of Chemical & Engineering Data*, **2011**, 56, 2536-2542	2.8	12
67	Effect of dehydrated-attapulgite nanoinclusions on the thermoelectric properties of BiSbTe alloys. *RSC Advances*, **2013**, 3, 4951	3.7	11
66	The mechanisms underlying the reduction in aluminum toxicity and improvements in the yield of sweet potato (Ipomoea batatas L.) After organic and inorganic amendment of an acidic ultisol. *Agriculture, Ecosystems and Environment*, **2020**, 288, 106716	5.7	11
65	CaAlSiN3:Eu2+/Lu3Al5O12:Ce3+ phosphor-in-glass film with high luminous efficiency and CRI for laser diode lighting. *Journal of Materials Chemistry C*, **2021**, 9, 3522-3530	7.1	11
64	Amelioration of an acidic ultisol by straw-derived biochars combined with dicyandiamide under application of urea. *Environmental Science and Pollution Research*, **2017**, 24, 6698-6709	5.1	10
63	Competition between bacteria and phosphate for adsorption sites on gibbsite: An in-situ ATR-FTIR spectroscopic and macroscopic study. *Colloids and Surfaces B: Biointerfaces*, **2016**, 148, 496-502	6	10

62	Effect of composition deviation on the microstructure and luminescence properties of Nd:YAG ceramics. *CrystEngComm*, **2014**, 16, 10856-10862	3.3	10
61	Synthesis of Cerium-Doped Gd3(Al,Ga)5O12 Powder for Ceramic Scintillators with Ultrasonic-Assisted Chemical Coprecipitation Method. *Journal of the American Ceramic Society*, **2013**, 96, 3038-3041	3.8	10
60	Enhanced Thermoelectric Properties of p-Type BiSbTe/SbTe Composite. *ACS Applied Materials & Interfaces*, **2020**, 12, 52922-52928	9.5	10
59	Refined band structure plus enhanced phonon scattering realizes thermoelectric performance optimization in CuIMn codoped SnTe. *Journal of Materials Chemistry A*, **2021**, 9, 13065-13070	13	10
58	Achieving high-performance p-type SmMg2Bi2 thermoelectric materials through band engineering and alloying effects. *Journal of Materials Chemistry A*, **2020**, 8, 15760-15766	13	9
57	Investigation on structure and thermoelectric properties in p-type Bi0.48Sb1.52Te3 via PbTe incorporating. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 7701-7706	2.1	9
56	A Direct Method to Extract Transient Sub-Gap Density of State (DOS) Based on Dual Gate Pulse Spectroscopy. *Scientific Reports*, **2016**, 6, 24096	4.9	9
55	YAG phosphor with spatially separated luminescence centers. *Journal of Materials Chemistry C*, **2016**, 4, 244-247	7.1	9
54	Adsorption of chromate on variable charge soils as influenced by ionic strength. *Environmental Earth Sciences*, **2012**, 66, 1155-1162	2.9	9
53	Nano-scaled top-down of bismuth chalcogenides based on electrochemical lithium intercalation. *Journal of Nanoparticle Research*, **2011**, 13, 6569-6578	2.3	9
52	Negative Wien Effect Measurements for Exploring Polarization Processes of Cations Interacting with Negatively Charged Soil Particles. *Soil Science Society of America Journal*, **2009**, 73, 569-578	2.5	9
51	Investigating the thermoelectric performance of n-type SnSe: the synergistic effect of NbCl5 doping and dislocation engineering. *Journal of Materials Chemistry C*, **2020**, 8, 13244-13252	7.1	9
50	Improved Thermoelectric Properties of BiSbTe-AgBiSe2 Alloys by Suppressing Bipolar Excitation. *ACS Applied Energy Materials*, **2021**, 4, 2944-2950	6.1	9
49	Achieving High Thermoelectric Performance of n-Type BiTeSe Sintered Materials by Hot-Stacked Deformation. *ACS Applied Materials & Interfaces*, **2021**, 13, 15429-15436	9.5	9
48	Enhanced thermoelectric performance in p-type polycrystalline SnSe by Cu doping. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 18727-18732	2.1	9
47	Evolution of soil surface charge in a chronosequence of paddy soil derived from Alfisol. *Soil and Tillage Research*, **2019**, 192, 144-150	6.5	8
46	Texture Development and Grain Alignment of Hot-Pressed Tetradymite Bi0.48Sb1.52Te3 via Powder Molding. *Energy Technology*, **2019**, 7, 1900814	3.5	8
45	Stabilization of Thermoelectric Properties of the Cu/Bi0.48Sb1.52Te3 Composite for Advantageous Power Generation. *Journal of Electronic Materials*, **2017**, 46, 2746-2751	1.9	8

44	Enhancement of Cd(II) adsorption by rice straw biochar through oxidant and acid modifications. *Environmental Science and Pollution Research*, **2021**, 28, 42787-42797	5.1	8
43	Enhanced Thermoelectric and Mechanical Performances in Sintered BiSbTe-AgSbSe Composite. *ACS Applied Materials & Interfaces*, **2021**, 13, 24937-24944	9.5	8
42	Biochars derived from crop straws increased the availability of applied phosphorus fertilizer for maize in Ultisol and Oxisol. *Environmental Science and Pollution Research*, **2020**, 27, 5511-5522	5.1	7
41	Highly transparent cerium doped gadolinium gallium aluminum garnet ceramic prepared with precursors fabricated by ultrasonic enhanced chemical co-precipitation. *Ultrasonics Sonochemistry*, **2017**, 39, 792-797	8.9	6
40	A far-red-emitting (Gd,Y)3(Ga,Al)5O12:Mn2+ ceramic phosphor with enhanced thermal stability for plant cultivation. *Journal of the American Ceramic Society*, **2020**, 103, 5157-5168	3.8	6
39	Effects of crop straw biochars on aluminum species in soil solution as related with the growth and yield of canola (Brassica napus L.) in an acidic Ultisol under field condition. *Environmental Science and Pollution Research*, **2020**, 27, 30178-30189	5.1	6
38	Thermoelectric Performance Optimization and Phase Transition of GeTe by Alloying with Orthorhombic CuSbSe2. *ACS Applied Energy Materials*, **2021**, 4, 4242-4247	6.1	6
37	Interactions of Heavy Metal Ions with Paddy Soils as Inferred from Wien Effect Measurements in Dilute Suspensions. *Pedosphere*, **2006**, 16, 718-725	5	5
36	Characteristics of crop straw-decayed products and their ameliorating effects on an acidic Ultisol. *Archives of Agronomy and Soil Science*, **2020**, 1-14	2	5
35	Paddy Cultivation Significantly Alters Phosphorus Sorption Characteristics and Loss Risk in a Calcareous Paddy Soil Chronosequence. *Soil Science Society of America Journal*, **2019**, 83, 575-583	2.5	4
34	Tunable luminescent spectra via energy transfers between different lattice sites in Ce3+, Mn2+ codoped Ba9Lu2Si6O24 phosphors for NUV-based warm white LED applications. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 4547-4556	2.1	4
33	Full spectrum core-shell phosphors under ultraviolet excitation. *Chemical Communications*, **2019**, 55, 12188-12191	5.8	3
32	Understanding the Band Engineering in Mg2Si-Based Systems from Wannier-Orbital Analysis. *Annalen Der Physik*, **2020**, 532, 1900543	2.6	3
31	Isothermal titration calorimetry as a useful tool to examine adsorption mechanisms of phosphate on gibbsite at various solution conditions. *Soil Science Society of America Journal*, **2020**, 84, 1110-1124	2.5	3
30	The Effects of Cation Concentration in the Salt Solution on the Cerium Doped Gadolinium Gallium Aluminum Oxide Nanopowders Prepared by a Co-precipitation Method. *IEEE Transactions on Nuclear Science*, **2014**, 61, 301-305	1.7	3
29	Co-Precipitation Synthesis of Gadolinium Aluminum Gallium Oxide (GAGG) via Different Precipitants. *IEEE Transactions on Nuclear Science*, **2014**, 61, 306-311	1.7	3
28	Thermoelectric properties of CoSb3 and CoSb3/SiC composites prepared by mechanical alloying and microwave sintering. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 10509-10515	2.1	3
27	In-situ ATR-FTIR spectroscopic investigation of desorption of phosphate from haematite by bacteria. *European Journal of Soil Science*, **2017**, 68, 480-490	3.4	3

26	Inhibiting Effect of Dicyandiamide on Soil Acidification Induced by Application of Urea or Ammonium Bicarbonate. *Communications in Soil Science and Plant Analysis*, **2014**, 45, 1823-1830	1.5	3
25	Effect of Ionic Strength on Specific Adsorption of Ions by Variable Charge Soils: Experimental Testification on the Adsorption Model of Bowden et al. **2010**, 78-80		3
24	Wien Effect Characterization of Interactions Between Ions and Charged Sites on Clay Surfaces of Variable-Charge Soils. *Pedosphere*, **2009**, 19, 545-553	5	3
23	The amelioration effects of canola straw biochar on Ultisol acidity varied with the soil in which the feedstock crop was cultivated. *Journal of Soils and Sediments*, **2020**, 20, 1424-1434	3.4	3
22	Effect of Ca2+ - Si4+ on Y3Al5O12:Ce ceramic phosphors for white laser-diodes lighting. *Applied Physics Letters*, **2021**, 118, 211902	3.4	3
21	Mediating Point Defects Endows n-Type Bi Te with High Thermoelectric Performance and Superior Mechanical Robustness for Power Generation Application.. *Small*, **2022**, e2201352	11	3
20	Adhesion mediated transport of bacterial pathogens in saturated sands coated by phyllosilicates and Al-oxides. *Colloids and Surfaces B: Biointerfaces*, **2019**, 181, 215-225	6	2
19	Enhancing phosphorus availability in two variable charge soils by the amendments of crop straw biochars. *Arabian Journal of Geosciences*, **2020**, 13, 1	1.8	2
18	Single Crystal Structure Study of Type I Clathrate (hbox {K}_{8}hbox {Zn}_4hbox {Sn}_{42}) and (hbox {K}_8hbox {In}_8hbox {Sn}_{38}). *Journal of Electronic Materials*, **2017**, 46, 2765-2769	1.9	2
17	Optimized Thermoelectric Properties of BiSbTe through AgCuTe Doping for Low-Grade Heat Harvesting. *ACS Applied Materials & Interfaces*, **2021**, 13, 57514-57520	9.5	2
16	Boosting the Thermoelectric Performance of PbSe from the Band Convergence Driven By Spin-Orbit Coupling. *Advanced Energy Materials*,2103287	21.8	2
15	Effect of ferrolysis and organic matter accumulation on chromate adsorption characteristics of an Oxisol-derived paddy soil. *Science of the Total Environment*, **2020**, 744, 140868	10.2	2
14	Boosted carrier mobility and enhanced thermoelectric properties of polycrystalline Na0.03Sn0.97Se by liquid-phase hot deformation. *Materials Advances*, **2020**, 1, 1092-1098	3.3	2
13	The hydrothermally synthesis of K3AlF6:Cr3+ NIR phosphor and its performance optimization based on phase control. *Journal of the American Ceramic Society*, **2021**, 104, 5235-5243	3.8	2
12	Effect of tea polyphenols on copper adsorption and manganese release in two variable-charge soils. *Journal of Geochemical Exploration*, **2018**, 190, 374-380	3.8	1
11	Thermoelectric Properties of CdTe1− Cl x Material Prepared by Spark Plasma Sintering Method. *Journal of Electronic Materials*, **2014**, 43, 3087-3091	1.9	1
10	Unusually high Seebeck coefficient arising from temperature-dependent carrier concentration in PbSe–AgSbSe2 alloys. *Journal of Materials Chemistry C*, **2021**, 9, 17365-17370	7.1	1
9	Application of measuring electrochemical characteristics on plant root surfaces in screening Al-tolerant wheat. *Environmental Pollution*, **2021**, 281, 116993	9.3	1

8	Direct Quantification of Sorption Thermodynamics of Phosphate on Four Soil Colloids through Isothermal Titration Calorimetry. *ACS Earth and Space Chemistry*, **2021**, 5, 295-304	3.2	1
7	Synergistically Optimized Thermoelectric and Mechanical Properties in p-Type BiSbTe by a Microdroplet Deposition Technique. *Energy Technology*, **2021**, 9, 2001024	3.5	1
6	Elucidating the mechanisms determining the availability of phosphate by application of biochars from different parent materials.. *Environmental Geochemistry and Health*, **2022**, 1	4.7	0
5	Anomalous Thermopower and High in GeMnTe Driven by Spin‐Ŧ Thermodynamic Entropy. *Research*, **2021**, 2021, 1949070	7.8	0
4	Inhibition of phosphate sorptions on four soil colloids by two bacteria. *Environmental Pollution*, **2021**, 290, 118001	9.3	0
3	Dramatically enhanced Seebeck coefficient in GeMnTe-NaBiTe alloys by tuning the Spin‐Ŧ thermodynamic entropy. *Physical Chemistry Chemical Physics*, **2021**, 23, 17866-17872	3.6	0
2	A high-efficiency GeTe-based thermoelectric module for low-grade heat recovery. *Journal of Materials Chemistry A*, **2022**, 10, 7677-7683	13	0
1	Effect of paddy cultivation on the surface electrochemical properties of different-sized particles of a Gleysol. *Journal of Plant Nutrition and Soil Science*, **2021**, 184, 471-478	2.3	