

# Patrick Sakyi

## List of Publications by Citations

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85  
papers

1,902  
citations

23  
h-index

41  
g-index

90  
ext. papers

2,178  
ext. citations

3  
avg, IF

4.52  
L-index

#	Paper	IF	Citations
85	SIMS zircon U-Pb geochronology and Sr-Nd isotopes of Ni-Cu-Bearing Mafic-Ultramafic Intrusions in Eastern Tianshan and Beishan in correlation with flood basalts in Tarim Basin (NW China): Constraints on a ca. 280 Ma mantle plume. <i>Numerische Mathematik</i> , <b>2011</b> , 311, 237-260	5.3	276
84	UPb ages and Hf $\delta$ isotopes of zircons from Late Paleozoic mafic-ultramafic units in the southern Central Asian Orogenic Belt: Tectonic implications and evidence for an Early-Permian mantle plume. <i>Gondwana Research</i> , <b>2011</b> , 20, 516-531	5.1	217
83	Subduction-induced mantle heterogeneity beneath Eastern Tianshan and Beishan: Insights from Nd $\delta$ and Hf $\delta$ isotopic mapping of Late Paleozoic mafic-ultramafic complexes. <i>Lithos</i> , <b>2012</b> , 134-135, 41-51	2.9	78
82	Late Paleozoic magmatic record of East Junggar, NW China and its significance: Implication from zircon UPb dating and Hf isotope. <i>Gondwana Research</i> , <b>2011</b> , 20, 532-542	5.1	68
81	Occurrence of an Alaskan-type complex in the Middle Tianshan Massif, Central Asian Orogenic Belt: inferences from petrological and mineralogical studies. <i>International Geology Review</i> , <b>2012</b> , 54, 249-269	2.3	65
80	Geochemistry of Paleoproterozoic metasedimentary rocks from the Birim diamondiferous field, southern Ghana: Implications for provenance and crustal evolution at the Archean-Proterozoic boundary. <i>Geochemical Journal</i> , <b>2004</b> , 38, 215-228	0.9	56
79	Late Paleozoic mafic-ultramafic intrusions in southern Central Asian Orogenic Belt (NW China): Insight into magmatic Ni-Cu sulfide mineralization in orogenic setting. <i>Ore Geology Reviews</i> , <b>2013</b> , 51, 57-73	3.2	49
78	Geochemistry and geochronology of acidic rocks in the Beishan region, NW China: Petrogenesis and tectonic implications. <i>Journal of Asian Earth Sciences</i> , <b>2011</b> , 41, 31-43	2.8	49
77	The metasedimentary rocks from the eastern margin of the Tarim Craton: Petrology, geochemistry, zircon UPb dating, Hf isotopes and tectonic implications. <i>Lithos</i> , <b>2013</b> , 179, 120-136	2.9	48
76	The origin of spongy texture in minerals of mantle xenoliths from the Western Qinling, central China. <i>Contributions To Mineralogy and Petrology</i> , <b>2011</b> , 161, 465-482	3.5	46
75	Geochronologic-petrochemical studies of the Hongshishan mafic-ultramafic intrusion, Beishan area, Xinjiang (NW China): petrogenesis and tectonic implications. <i>International Geology Review</i> , <b>2012</b> , 54, 270-289	2.3	41
74	Petrology and geochronology of Paleoproterozoic garnet-bearing amphibolites from the Dunhuang Block, Eastern Tarim Craton. <i>Precambrian Research</i> , <b>2014</b> , 255, 163-180	3.9	38
73	Identifying key processes in the hydrochemistry of a basin through the combined use of factor and regression models. <i>Journal of Earth System Science</i> , <b>2012</b> , 121, 491-507	1.8	38
72	The petrogenesis and tectonic implications of the granitoid gneisses from Xingxingxia in the eastern segment of Central Tianshan. <i>Journal of Asian Earth Sciences</i> , <b>2014</b> , 88, 277-292	2.8	37
71	Formation age and genesis of the Gongchangling Neoproterozoic banded iron deposit in eastern Liaoning Province: Constraints from geochemistry and SHRIMP zircon UPb dating. <i>Precambrian Research</i> , <b>2014</b> , 254, 306-322	3.9	36
70	Extremely high Li and low $\delta$ Li signatures in the lithospheric mantle. <i>Chemical Geology</i> , <b>2012</b> , 292-293, 149-157	4.2	35
69	Compositionally stratified lithosphere and carbonatite metasomatism recorded in mantle xenoliths from the Western Qinling (Central China). <i>Lithos</i> , <b>2010</b> , 116, 111-128	2.9	35

68	Petrological, geochemical and geochronological constraints on the origin of the Xiadong Ural-Alaskan type complex in NW China and tectonic implication for the evolution of southern Central Asian Orogenic Belt. <i>Lithos</i> , <b>2014</b> , 200-201, 226-240	2.9	34
67	Magma source and tectonics of the Xiangshanzhong mafic-ultramafic intrusion in the Central Asian Orogenic Belt, NW China, traced from geochemical and isotopic signatures. <i>Lithos</i> , <b>2013</b> , 170-171, 144-163	2.9	33
66	Inherited Pb isotopic records in olivine antecryst-hosted melt inclusions from Hawaiian lavas. <i>Geochimica Et Cosmochimica Acta</i> , <b>2012</b> , 95, 169-195	5.5	32
65	Evolutionary analysis of groundwater flow: Application of multivariate statistical analysis to hydrochemical data in the Densu Basin, Ghana. <i>Journal of African Earth Sciences</i> , <b>2018</b> , 138, 167-176	2.2	31
64	Distinguishing silicate and carbonatite mantle metasomatism by using lithium and its isotopes. <i>Chemical Geology</i> , <b>2014</b> , 381, 67-77	4.2	29
63	Melt Penetration in Oceanic Lithosphere: Li Isotope Records from the Pozantı-Karsantı Ophiolite in Southern Turkey. <i>Journal of Petrology</i> , <b>2018</b> , 59, 191-205	3.9	23
62	Olivine compositional mapping of mafic-ultramafic complexes in eastern Xinjiang (NW China): Implications for Cu-Ni mineralization and tectonic dynamics. <i>Journal of Earth Science (Wuhan, China)</i> , <b>2012</b> , 23, 41-53	2.2	23
61	Late Paleozoic metallogenesis and evolution of the East Tianshan Orogenic Belt (NW China, Central Asia Orogenic Belt). <i>Geology of Ore Deposits</i> , <b>2014</b> , 56, 493-512	0.7	21
60	Mineralogy of the Koktokay No. 3 pegmatite, Altai, NW China: implications for evolution and melt-fluid processes of rare-metal pegmatites. <i>European Journal of Mineralogy</i> , <b>2015</b> , 27, 433-457	2.2	20
59	Discovery of a hidden BIF deposit in Anhui province, China by integrated geological and geophysical investigations. <i>Ore Geology Reviews</i> , <b>2014</b> , 63, 470-477	3.2	20
58	Conceptualization of the hydrogeological system of some sedimentary aquifers in Savelugu-Nanton and surrounding areas, Northern Ghana. <i>Hydrological Processes</i> , <b>2013</b> , 27, 1664-1676	3.3	18
57	Formation of melt pocket in mantle peridotite xenolith from western Qinling, Central China: Partial melting and metasomatism. <i>Journal of Earth Science (Wuhan, China)</i> , <b>2010</b> , 21, 641-668	2.2	18
56	Initial subduction of Neo-Tethyan ocean: Geochemical records in chromite and mineral inclusions in the Pozantı-Karsantı Ophiolite, southern Turkey. <i>Ore Geology Reviews</i> , <b>2019</b> , 110, 102926	3.2	17
55	LA-ICP-MS U-Pb zircon, columbite-tantalite and <sup>40</sup> Ar/ <sup>39</sup> Ar muscovite age constraints for the rare-element pegmatite dykes in the Altai orogenic belt, NW China. <i>Geological Magazine</i> , <b>2018</b> , 155, 707-728	2.7	17
54	A contribution to common Carius tube distillation techniques. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2013</b> , 28, 396	3.7	17
53	Chromite-induced magnesium isotope fractionation during mafic magma differentiation. <i>Science Bulletin</i> , <b>2017</b> , 62, 1538-1546	10.6	17
52	New zircon U-Pb ages for erratic emplacement of 2213-130Ma Paleoproterozoic calc-alkaline I-type granitoid rocks in the Lawra Volcanic Belt of Northwestern Ghana, West Africa. <i>Precambrian Research</i> , <b>2014</b> , 254, 149-168	3.9	16
51	Large Lithium Isotopic Variations in Minerals from Peridotite Xenoliths from the Eastern North China Craton. <i>Journal of Geology</i> , <b>2015</b> , 123, 79-94	2	14

50	Early Mesozoic tectono-magmatic activity and mineralization in Northeast China: evidence from Re-Os to U-Pb studies of the Taipingchuan porphyry Cu-Mo deposit in the Derbugan metallogenic belt. <i>International Geology Review</i> , <b>2014</b> , 56, 1837-1851	2.3	13
49	Geochemical and Nd-isotopic compositions of juvenile-type Paleoproterozoic Birimian sedimentary rocks from southeastern West African Craton (Ghana): Constraints on provenance and tectonic setting. <i>Precambrian Research</i> , <b>2017</b> , 300, 40-52	3.9	13
48	Paleozoic subduction-related magmatism in the Duobagou area, Dunhuang block: Constrained by zircon U-Pb geochronology and Lu-Hf isotopes and whole-rock geochemistry of metaigneous rocks. <i>Lithosphere</i> , <b>2017</b> , 9, 1012-1032	2.7	13
47	Determination of multi-element concentrations at ultra-low levels in alternating magnetite and pyrite by HR-ICP-MS using matrix removal and preconcentration. <i>Microchemical Journal</i> , <b>2016</b> , 127, 237-246	4.8	13
46	Origin of Reverse Zoned Cr-Spinels from the Paleoproterozoic Yanmenguan Mafic-Ultramafic Complex in the North China Craton. <i>Minerals (Basel, Switzerland)</i> , <b>2018</b> , 8, 62	2.4	12
45	Breakdown of orthopyroxene contributing to melt pockets in mantle peridotite xenoliths from the Western Qinling, central China: constraints from in situ LA-ICP-MS mineral analyses. <i>Mineralogy and Petrology</i> , <b>2012</b> , 104, 225-247	1.6	12
44	Geochemistry and geochronology of granitoids in the Kibi-Asamankese area of the Kibi-Winneba volcanic belt, southern Ghana. <i>Journal of African Earth Sciences</i> , <b>2015</b> , 102, 166-179	2.2	11
43	Petrogenesis and mineralization of the Hulu Ni-Cu sulphide deposit in Xinjiang, NW China: constraints from Sr-Nd isotopic and PGE compositions. <i>International Geology Review</i> , <b>2014</b> , 56, 711-733	2.3	11
42	A new modification of the sample introduction system for Os isotope ratio measurements. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2011</b> , 26, 1245	3.7	11
41	Lithium elemental and isotopic variations in rock-melt interaction. <i>Chemie Der Erde</i> , <b>2014</b> , 74, 705-713	4.3	10
40	Decoupling of whole-rock Nd-Hf and zircon Hf-O isotopic compositions of a 284 Ma mafic-ultramafic intrusion in the Beishan Terrane, NW China. <i>International Journal of Earth Sciences</i> , <b>2015</b> , 104, 1721-1737	2.2	9
39	Neoproterozoic Algoma-type banded iron formation from the Northern Shanxi, the Trans-North China Orogen: SIMS U-Pb age, origin and tectonic setting. <i>Precambrian Research</i> , <b>2017</b> , 303, 548-572	3.9	9
38	Geochemical syntheses among the cratonic, off-cratonic and orogenic garnet peridotites and their tectonic implications. <i>International Journal of Earth Sciences</i> , <b>2011</b> , 100, 695-715	2.2	9
37	Determination of the mineral stability field of evolving groundwater in the Lake Bosumtwi impact crater and surrounding areas. <i>Journal of African Earth Sciences</i> , <b>2016</b> , 121, 286-300	2.2	8
36	Geology, Re-Os and U-Pb geochronology and sulfur isotope of the the Donggebi porphyry Mo deposit, Xinjiang, NW China, Central Asian Orogenic Belt. <i>Journal of Asian Earth Sciences</i> , <b>2018</b> , 165, 270-284	2.8	8
35	Mineralogy, geochemistry, and zircon U-Pb-Hf isotopes of the Paleoproterozoic granulite-facies metamorphic rocks from the Aketashitaga area, southeastern Tarim Craton. <i>Precambrian Research</i> , <b>2019</b> , 321, 13-33	3.9	8
34	Ages and tectonic implications of the mafic-ultramafic-carbonatite intrusive rocks and associated Cu-Ni, Fe-P and apatite-vermiculite deposits from the Quruqtagh district, NW China. <i>Ore Geology Reviews</i> , <b>2018</b> , 95, 1106-1122	3.2	7
33	Partial melting control of lithium concentrations and isotopes in the Cenozoic lithospheric mantle beneath Jiande area, the Cathaysia block of SE China. <i>Chemical Geology</i> , <b>2017</b> , 466, 750-761	4.2	7

32	Lithium isotopic composition of Alaskan-type intrusion and its implication. <i>Lithos</i> , <b>2017</b> , 286-287, 363-368.	2.9	7
31	Nature and evolution of lithospheric mantle beneath the southern Ethiopian rift zone: evidence from petrology and geochemistry of mantle xenoliths. <i>International Journal of Earth Sciences</i> , <b>2017</b> , 106, 939-958	2.2	6
30	Estimation of groundwater recharge in sedimentary rock aquifer systems in the Oti basin of Gushiegu District, Northern Ghana. <i>Journal of African Earth Sciences</i> , <b>2017</b> , 131, 272-283	2.2	6
29	Subduction-driven heterogeneity of the lithospheric mantle beneath the Cathaysia block, South China. <i>Journal of Asian Earth Sciences</i> , <b>2019</b> , 186, 104062	2.8	6
28	Groundwater-lake interactions: an evaluation of the impacts of climate change and increased abstractions on groundwater contribution to the Volta Lake, Ghana. <i>Environmental Earth Sciences</i> , <b>2019</b> , 78, 1	2.9	6
27	Petrogenesis of the Ultramafic Zone of the Stillwater Complex in North America: constraints from mineral chemistry and stable isotopes of Li and O. <i>Contributions To Mineralogy and Petrology</i> , <b>2020</b> , 175, 1	3.5	6
26	Carbonatite-metasomatism signatures hidden in silicate-metasomatized mantle xenoliths from NE China. <i>Geological Journal</i> , <b>2018</b> , 53, 682-691	1.7	6
25	Geochemical and Sr-Nd isotopic records of Paleoproterozoic metavolcanics and mafic intrusive rocks from the West African Craton: Evidence for petrogenesis and tectonic setting. <i>Geological Journal</i> , <b>2018</b> , 53, 725-741	1.7	5
24	Zircon Trace Element Constraints on the Evolution of the Paleoproterozoic Birimian Granitoids of the West African Craton (Ghana). <i>Journal of Earth Science (Wuhan, China)</i> , <b>2018</b> , 29, 43-56	2.2	5
23	U-Pb geochronology of zircons from river sediments in Sri Lanka: Implications on early Archean to late Cambrian magmatism and episodic crustal growth. <i>Journal of Asian Earth Sciences</i> , <b>2019</b> , 171, 388-412	2.8	5
22	Petrology and geochemistry of TTG and K-rich Paleoproterozoic Birimian granitoids of the West African Craton (Ghana): Petrogenesis and tectonic implications. <i>Precambrian Research</i> , <b>2020</b> , 336, 105492	2.9	5
21	Platinum-Group Mineral Occurrences and Platinum-Group Elemental Geochemistry of the Xiadong Alaskan-Type Complex in the Southern Central Asian Orogenic Belt. <i>Minerals (Basel, Switzerland)</i> , <b>2018</b> , 8, 494	2.4	5
20	Exsolution Lamellae in Olivine Grains of Dunite Units from Different Types of Mafic-Ultramafic Complexes. <i>Acta Geologica Sinica</i> , <b>2018</b> , 92, 586-599	0.7	4
19	Trace elements in olivine: Proxies for petrogenesis, mineralization and discrimination of mafic-ultramafic rocks. <i>Lithos</i> , <b>2021</b> , 388-389, 106085	2.9	4
18	West Africa in Rodinia: High quality paleomagnetic pole from the ~ 860 Ma Manso dyke swarm (Ghana). <i>Gondwana Research</i> , <b>2021</b> , 94, 28-43	5.1	4
17	Highly siderophile elements and Os isotope constraints on the genesis of peridotites from the Kizilirmak ophiolite, southern Turkey. <i>Lithos</i> , <b>2020</b> , 368-369, 105583	2.9	3
16	Geochemical and Sm-Nd isotopic evidence for the composition of the Palaeoproterozoic crust of the West African Craton in Ghana. <i>Geological Journal</i> , <b>2019</b> , 54, 3940-3957	1.7	3
15	Alaskan-type nature and PGE mineralization of the Wuxing mafic-ultramafic complex in eastern part of the Central Asian Orogenic belt. <i>Ore Geology Reviews</i> , <b>2020</b> , 123, 103566	3.2	2

14	Paleoproterozoic multiphase magmatism and metamorphism recorded in metamorphic basement rocks of the northern Altyn Tagh, southeastern Tarim Craton. <i>Precambrian Research</i> , <b>2020</b> , 346, 105827	3.9	2
13	Late Paleozoic metallogenesis and evolution of the Chinese Western Tianshan Collage, NW China, Central Asia orogenic belt. <i>Ore Geology Reviews</i> , <b>2020</b> , 124, 103643	3.2	2
12	Origin of sapphirine- and garnet-bearing clinopyroxenite xenoliths entrained in the Jiande basalts, SE China. <i>Lithos</i> , <b>2018</b> , 304-307, 95-108	2.9	2
11	Re-Os geochronology and trace element characteristics of the hydrothermally reworked pyrite of the Gaobanhe sediment-hosted polymetal pyrite deposit in Northern China and its geological significance. <i>Journal of Geochemical Exploration</i> , <b>2020</b> , 215, 106561	3.8	2
10	LLHR-type chalcopyrite Re-Os geochronology and geochemistry of the Xiaotongchang Cu deposit in south Ailaoshan and its geological significances. <i>Journal of Geochemical Exploration</i> , <b>2019</b> , 198, 123-131	3.8	2
9	Ultramafic and granitoids supra-subduction magmatism in the southern Ashanti volcanic belt, Ghana: Evidence from geochemistry and Nd isotopes. <i>Geological Journal</i> , <b>2020</b> , 55, 2495-2531	1.7	2
8	High-temperature chromium isotope fractionation and its implications: Constraints from the Kizilirmak ophiolite, SE Turkey. <i>Lithos</i> , <b>2019</b> , 342-343, 361-369	2.9	1
7	Online Flow-Based Spectrophotometric Determination of Ferrous Iron Mass Fraction and Total Iron Mass Fraction in Twenty-Seven Rock Reference Materials Using a Schlenk line Technique. <i>Geostandards and Geoanalytical Research</i> , <b>2020</b> , 44, 785-804	3.6	1
6	Origin and tectonic significance of the metavolcanic rocks and mafic enclaves from the Palaeoproterozoic Birimian Terrane, SE West African Craton, Ghana. <i>Geological Magazine</i> , <b>2020</b> , 157, 1349-1366	2	1
5	Age and tectonic setting of the Jingangku Besshi-type volcanogenic massive sulfide deposit from the Northern Shanxi, North China Craton. <i>Precambrian Research</i> , <b>2020</b> , 350, 105873	3.9	1
4	Petrography of detrital zircons from sandstones of the Lower Devonian Accraian Formation, SE Ghana: Implications on provenance. <i>Geological Journal</i> , <b>2020</b> , 55, 3716-3731	1.7	1
3	Lithium enrichment and isotopic variation in minerals from peridotite xenoliths from northwestern Ethiopian plateau. <i>Journal of the Geological Society of India</i> , <b>2018</b> , 91, 99-108	1.3	
2	REE mineralization related to carbonatites and alkaline magmatism in the northern Tarim basin, NW China: implications for a possible Permian large igneous province. <i>International Journal of Earth Sciences</i> , <b>2020</b> , 159, 1051-1061	2.2	
1	Mantle and crust interaction scenario at the crust-mantle transition zone: Depicted from inter-layered pyroxenite-granulite xenolith in Hannuoba area, North China Craton. <i>Physics of the Earth and Planetary Interiors</i> , <b>2020</b> , 309, 106594	2.3	