Mayank Jain

List of Publications by Year in descending order

84 papers	6,055 citations	186265 28 h-index	168389 53 g-index
85 all docs	85 docs citations	85 times ranked	4042 citing authors

#	Article	IF	Citations
1	Achieving single channel, full duplex wireless communication. , 2010, , .		1,176
2	Practical, real-time, full duplex wireless. , 2011, , .		1,085
3	Applications of self-interference cancellation in 5G and beyond. , 2014, 52, 114-121.		631
4	A robust feldspar luminescence dating method for Middle and Late <scp>P</scp>leistocene sediments. Boreas, 2012, 41, 435-451.	2.4	561
5	Optically stimulated luminescence dating: how significant is incomplete light exposure in fluvial environments? [Datation par luminescence stimulÃ©e optiquement : quelle signification en cas de blanchiment incomplet des sÃ©diments fluviatiles ?]. Quaternaire, 2004, 15, 143-157.	0.2	163
6	Stability of IRSL signals from sedimentary K-feldspar samples. Geochronometria, 2011, 38, 1-13.	0.8	121
7	Stimulated luminescence emission from localized recombination in randomly distributed defects. Journal of Physics Condensed Matter, 2012, 24, 385402.	1.8	116
8	Limits to depletion of blue-green light stimulated luminescence in feldspars: implications for quartz dating. Radiation Measurements, 2001, 33, 883-892.	1.4	113
9	Investigating the resetting of OSL signals in rock surfaces. Geochronometria, 2011, 38, 249-258.	0.8	87
10	Optically stimulated luminescence (OSL) as a chronometer for surface exposure dating. Journal of Geophysical Research, 2012, 117, .	3.3	87
11	Single-grain dating of young sediments using the pIRIR signal from feldspar. Quaternary Geochronology, 2012, 11, 28-41.	1.4	84
12	A multi-method luminescence dating of the Palaeolithic sequence of La Ferrassie based on new excavations adjacent to the La Ferrassie 1 and 2 skeletons. Journal of Archaeological Science, 2015, 58, 147-166.	2.4	83
13	Modelling dose rate to single grains of quartz in well-sorted sand samples: The dispersion arising from the presence of potassium feldspars and implications for single grain OSL dating. Quaternary Geochronology, 2015, 27, 52-65.	1.4	82
14	Counter-intuitive influence of Himalayan river morphodynamics on Indus Civilisation urban settlements. Nature Communications, 2017, 8, 1617.	12.8	82
15	The Î² factor. , 2010, , .		78
16	Mathematical model quantifies multiple daylight exposure and burial events for rock surfaces using luminescence dating. Radiation Measurements, 2015, 81, 16-22.	1.4	75
17	How confident are we in the chronology of the transition between Howieson's Poort and Still Bay?. Journal of Human Evolution, 2013, 64, 314-317.	2.6	73
18	Radiation-induced growth and isothermal decay of infrared-stimulated luminescence from feldspar. Radiation Measurements, 2015, 81, 224-231.	1.4	66

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19	The dose dependency of the over-dispersion of quartz OSL single grain dose distributions. Radiation Measurements, 2012, 47, 732-739.	1.4	63
20	OSL-thermochronometry of feldspar from the KTB borehole, Germany. Earth and Planetary Science Letters, 2015, 423, 232-243.	4.4	59
21	Multi-method (TL and OSL), multi-material (quartz and flint) dating of the Mousterian site of Roc de Marsal (Dordogne, France): correlating Neanderthal occupations with the climatic variability of MIS 5â€“3. Journal of Archaeological Science, 2012, 39, 3071-3084.	2.4	58
22	Luminescence as a Sediment Tracer and Provenance Tool. Reviews of Geophysics, 2019, 57, 987-1017.	23.0	57
23	Extending the dose range: Probing deep traps in quartz with 3.06eV photons. Radiation Measurements, 2009, 44, 445-452.	1.4	55
24	Visibility. , 2007, , .		47
25	New luminescence measurement facilities in retrospective dosimetry. Radiation Measurements, 2012, 47, 803-808.	1.4	46
26	Quartz OSL dating of late quaternary Chinese and Serbian loess: A cross Eurasian comparison of dust mass accumulation rates. Quaternary International, 2019, 502, 30-44.	1.5	44
27	Optical dating in a new light: A direct, non-destructive probe of trapped electrons. Scientific Reports, 2017, 7, 12097.	3.3	42
28	Effective closure temperature in leaky and/or saturating thermochronometers. Earth and Planetary Science Letters, 2013, 384, 209-218.	4.4	39
29	Quantification of termite bioturbation in a savannah ecosystem: Application of OSL dating. Quaternary Geochronology, 2015, 30, 334-341.	1.4	39
30	Surface exposure dating of non-terrestrial bodies using optically stimulated luminescence: A new method. Icarus, 2012, 221, 160-166.	2.5	38
31	Beyond full duplex wireless. , 2012, , .		37
32	Centennial- to millennial-scale hard rock erosion rates deduced from luminescence-depth profiles. Earth and Planetary Science Letters, 2018, 493, 218-230.	4.4	34
33	On the trap depth of the IR-sensitive trap in Na- and K-feldspar. Radiation Measurements, 2013, 59, 103-113.	1.4	32
34	The complementarity of luminescence dating methods illustrated on the Mousterian sequence of the Roc de Marsal: A series of reindeer-dominated, Quina Mousterian layers dated to MIS 3. Quaternary International, 2017, 433, 102-115.	1.5	29
35	Late Quaternary OSL chronologies from the Qinghai Lake (NE Tibetan Plateau): Inter-comparison of quartz and K-feldspar ages to assess the pre-depositional bleaching. Quaternary Geochronology, 2019, 49, 159-164.	1.4	29
36	Towards the origins of over-dispersion in beta source calibration. Radiation Measurements, 2018, 120, 157-162.	1.4	28

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37	A comparative study of the luminescence characteristics of polymineral fine grains and coarse-grained K- and Na-rich feldspars. Radiation Measurements, 2012, 47, 903-908.	1.4	26
38	Red-IR stimulated luminescence in K-feldspar: Single or multiple trap origin?. Journal of Applied Physics, 2012, 112, 043507.	2.5	26
39	The dating and interpretation of a Mode 1 site in the Luangwa Valley, Zambia. Journal of Human Evolution, 2011, 60, 549-570.	2.6	25
40	Na-rich feldspar as a luminescence dosimeter in infrared stimulated luminescence (IRSL) dating. Radiation Measurements, 2013, 51-52, 67-82.	1.4	25
41	The case for a network protocol isolation layer. , 2009, , .		25
42	Pulsed IRSL: A stable and fast bleaching luminescence signal from feldspar for dating Quaternary sediments. Quaternary Geochronology, 2017, 41, 26-36.	1.4	24
43	Optical Dating of Late Quaternary Coastal Deposits in Northwestern Portugal. Journal of Coastal Research, 2008, 2, 134-144.	0.3	20
44	Optimization of laboratory illumination in optical dating. Quaternary Geochronology, 2017, 39, 105-111.	1.4	20
45	Stability of fineâ€grained <scp>TT</scp>â€<scp>OSL</scp> and postâ€<scp>IR IRSL</scp> signals from a c.Â1ÂMa sequence of aeolian and lacustrine deposits from the Nihewan Basin (northern China). Boreas, 2016, 45, 703-714.	2.4	18
46	A new microwave approach for the synthesis of green emitting Mn2+-doped ZnAl2O4: A detailed study on its structural and optical properties. Journal of Luminescence, 2020, 226, 117482.	3.1	18
47	Modeling of the shape of infrared stimulated luminescence signals in feldspars. Radiation Measurements, 2012, 47, 870-876.	1.4	17
48	Optical Burst Transport: A Technology for the WDM Metro Ring Networks. Journal of Lightwave Technology, 2007, 25, 93-102.	4.6	16
49	SWAT. , 2008, , .		16
50	Charge recombination processes in minerals studied using optically stimulated luminescence and time-resolved exo-electrons. Journal Physics D: Applied Physics, 2010, 43, 325502.	2.8	16
51	Thermal dependence of time-resolved blue light stimulated luminescence in Î±-Al2O3:C. Journal of Luminescence, 2013, 136, 270-277.	3.1	14
52	Optical determination of the width of the band-tail states, and the excited and ground state energies of the principal dosimetric trap in feldspar. Radiation Measurements, 2019, 125, 40-51.	1.4	14
53	A new method for measuring bioturbation rates in sandy tidal flat sediments based on luminescence dating. Estuarine, Coastal and Shelf Science, 2011, 92, 464-471.	2.1	13
54	Luminescence characteristics of quartz from Hsuehshan Range (Central Taiwan) and implications for thermochronometry. Radiation Measurements, 2015, 81, 104-109.	1.4	12

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55	Capacity & coverage enhancement of wireless communication using smart antenna system. , 2016, , .		12
56	The effect of test dose and first IR stimulation temperature on post-IR IRSL measurements of rock slices. Geochronometria, 2016, 43, 179-187.	0.8	12
57	Breakdown of Kashaâ€™s Rule in a Ubiquitous, Naturally Occurring, Wide Bandgap Aluminosilicate (Feldspar). Scientific Reports, 2018, 8, 810.	3.3	12
58	Resetting of the luminescence signal in modern riverbed cobbles along the course of the Shiyang River, China. Quaternary Geochronology, 2019, 49, 184-190.	1.4	12
59	Neotectonics of western India: evidence from deformed Quaternary fluvial sequences, Mahi River, Gujarat. Journal of the Geological Society, 1998, 155, 897-901.	2.1	10
60	Re â€˜Luminescence dating of K-feldspar from sediments: a protocol without anomalous fading correctionâ€™ by Bo Li and Sheng-Hua Li. Quaternary Geochronology, 2012, 8, 46-48.	1.4	10
61	Granting silence to avoid wireless collisions. , 2010, , .		9
62	Quantitative analysis of time-resolved infrared stimulated luminescence in feldspars. Physica B: Condensed Matter, 2016, 497, 78-85.	2.7	9
63	Freedom of Frequency: How the Quest for In-Band Full-Duplex Led to a Breakthrough in Filter Design. IEEE Microwave Magazine, 2019, 20, 36-43.	0.8	9
64	Sediment dating using Infrared Photoluminescence. Quaternary Geochronology, 2021, 62, 101147.	1.4	9
65	An attempt to correct for the fading in million year old basaltic rocks. Geochronometria, 2011, 38, 223-230.	0.8	8
66	Dynamics of the deep red Fe3+ photoluminescence emission in feldspar. Journal of Luminescence, 2018, 196, 462-469.	3.1	7
67	A coupled RL and transport model for mixed-field proton irradiation of Al2O3:C. Radiation Measurements, 2008, 43, 1049-1053.	1.4	6
68	Timing of lake-level changes for a deep last-glacial Lake Missoula: optical dating of the Garden Gulch area, Montana, USA. Quaternary Science Reviews, 2018, 183, 23-35.	3.0	6
69	Utilisation of OSL from Table Salt in Retrospective Dosimetry. Japanese Journal of Health Physics, 2011, 46, 60-65.	0.1	5
70	Developing a SAR TT-OSL protocol for volcanically-heated aeolian quartz from Datong (China). Quaternary Geochronology, 2012, 10, 308-313.	1.4	5
71	Luminescence signals of quartz and feldspar as new methods for stratigraphic discrimination and provenance analysis of siliciclastic successions: The case of the ParnaÃba Basin (Brazil) of West Gondwana. Basin Research, 0, , .	2.7	5
72	Dependence of (anomalous) fading of infra-red stimulated luminescence on trap occupancy in feldspars. Journal of Luminescence, 2013, 143, 704-709.	3.1	4

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73	Quartz luminescence response to a mixed alpha-beta field: Investigations on Romanian loess. Radiation Measurements, 2015, 81, 110-115.	1.4	4
74	Photon energy (8â€“250â€¯keV) response of optically stimulated luminescence: Implications for luminescence geochronology. Journal of Luminescence, 2018, 204, 135-144.	3.1	4
75	Towards an improvement of optically stimulated luminescence (OSL) age uncertainties: modelling OSL ages with systematic errors, stratigraphic constraints and radiocarbon ages using the R package BayLum. Geochronology, 2021, 3, 229-245.	2.5	3
76	The Video Face Book. Lecture Notes in Computer Science, 2012, , 495-506.	1.3	3
77	A Novel Technique for Denial of Service Identification in Optical Access Networks. , 2008, , .		1
78	MAWG: Multicasting Arrayed Waveguide Grating for WDM-PON Applications. , 2008, , .		1
79	Ber Analysis for Various Modulation Techniques under Diffferent Fading Environment. , 2012, , .		1
80	Luminescence Instrumentation. Defect and Diffusion Forum, 2014, 357, 245-260.	0.4	1
81	Reply to the comments by Madsen & Liu on â€œLate quaternary OSL chronologies from the Qinghai Lake (NE Tibetan Plateau): Inter-comparison of quartz and K-feldspar ages to assess the pre-depositional bleachingâ€• Quaternary Geochronology, 2019, 50, 14-15.	1.4	1
82	Feldspar, Infrared-Stimulated Luminescence. Encyclopedia of Earth Sciences Series, 2015, , 279-284.	0.1	1
83	Single channel, full-duplex wireless. , 2011, , .		0
84	Reply to: â€œA response to some unwarranted criticisms of single-grain datingâ€•by J.K. Feathers. Quaternary Geochronology, 2017, 37, 8-14.	1.4	0