

# Mayank Jain

## List of Publications by Year in descending order

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84  
papers

6,055  
citations

186265

28  
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85  
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85  
docs citations

85  
times ranked

4042  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sediment dating using Infrared Photoluminescence. <i>Quaternary Geochronology</i> , 2021, 62, 101147.	1.4	9
2	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. <i>Geochronology</i> , 2021, 3, 229-245.	2.5	3
3	A new microwave approach for the synthesis of green emitting Mn <sup>2+</sup> -doped ZnAl <sub>2</sub> O <sub>4</sub> : A detailed study on its structural and optical properties. <i>Journal of Luminescence</i> , 2020, 226, 117482.	3.1	18
4	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. <i>Quaternary Geochronology</i> , 2019, 49, 159-164.	1.4	29
5	Luminescence as a Sediment Tracer and Provenance Tool. <i>Reviews of Geophysics</i> , 2019, 57, 987-1017.	23.0	57
6	Freedom of Frequency: How the Quest for In-Band Full-Duplex Led to a Breakthrough in Filter Design. <i>IEEE Microwave Magazine</i> , 2019, 20, 36-43.	0.8	9
7	Optical determination of the width of the band-tail states, and the excited and ground state energies of the principal dosimetric trap in feldspar. <i>Radiation Measurements</i> , 2019, 125, 40-51.	1.4	14
8	Reply to the comments by Madsen & Liu on "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". <i>Quaternary Geochronology</i> , 2019, 50, 14-15.	1.4	1
9	Quartz OSL dating of late quaternary Chinese and Serbian loess: A cross Eurasian comparison of dust mass accumulation rates. <i>Quaternary International</i> , 2019, 502, 30-44.	1.5	44
10	Resetting of the luminescence signal in modern riverbed cobbles along the course of the Shiyang River, China. <i>Quaternary Geochronology</i> , 2019, 49, 184-190.	1.4	12
11	Timing of lake-level changes for a deep last-glacial Lake Missoula: optical dating of the Garden Gulch area, Montana, USA. <i>Quaternary Science Reviews</i> , 2018, 183, 23-35.	3.0	6
12	Breakdown of Kasha's Rule in a Ubiquitous, Naturally Occurring, Wide Bandgap Aluminosilicate (Feldspar). <i>Scientific Reports</i> , 2018, 8, 810.	3.3	12
13	Dynamics of the deep red Fe <sup>3+</sup> photoluminescence emission in feldspar. <i>Journal of Luminescence</i> , 2018, 196, 462-469.	3.1	7
14	Towards the origins of over-dispersion in beta source calibration. <i>Radiation Measurements</i> , 2018, 120, 157-162.	1.4	28
15	Photon energy (8–250 keV) response of optically stimulated luminescence: Implications for luminescence geochronology. <i>Journal of Luminescence</i> , 2018, 204, 135-144.	3.1	4
16	Centennial- to millennial-scale hard rock erosion rates deduced from luminescence-depth profiles. <i>Earth and Planetary Science Letters</i> , 2018, 493, 218-230.	4.4	34
17	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. <i>Quaternary International</i> , 2017, 433, 102-115.	1.5	29
18	Optimization of laboratory illumination in optical dating. <i>Quaternary Geochronology</i> , 2017, 39, 105-111.	1.4	20

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19	Pulsed IRSL: A stable and fast bleaching luminescence signal from feldspar for dating Quaternary sediments. <i>Quaternary Geochronology</i> , 2017, 41, 26-36.	1.4	24
20	Optical dating in a new light: A direct, non-destructive probe of trapped electrons. <i>Scientific Reports</i> , 2017, 7, 12097.	3.3	42
21	Counter-intuitive influence of Himalayan river morphodynamics on Indus Civilisation urban settlements. <i>Nature Communications</i> , 2017, 8, 1617.	12.8	82
22	Reply to: "A response to some unwarranted criticisms of single-grain dating" by J.K. Feathers. <i>Quaternary Geochronology</i> , 2017, 37, 8-14.	1.4	0
23	Capacity & coverage enhancement of wireless communication using smart antenna system. , 2016, , .		12
24	Quantitative analysis of time-resolved infrared stimulated luminescence in feldspars. <i>Physica B: Condensed Matter</i> , 2016, 497, 78-85.	2.7	9
25	The effect of test dose and first IR stimulation temperature on post-IR IRSL measurements of rock slices. <i>Geochronometria</i> , 2016, 43, 179-187.	0.8	12
26	Stability of fine-grained $TT$ and post-IR IRSL signals from a $10^5$ c.y. sequence of aeolian and lacustrine deposits from the Nihewan Basin (northern China). <i>Boreas</i> , 2016, 45, 703-714.	2.4	18
27	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. <i>Quaternary Geochronology</i> , 2015, 27, 52-65.	1.4	82
28	Radiation-induced growth and isothermal decay of infrared-stimulated luminescence from feldspar. <i>Radiation Measurements</i> , 2015, 81, 224-231.	1.4	66
29	Mathematical model quantifies multiple daylight exposure and burial events for rock surfaces using luminescence dating. <i>Radiation Measurements</i> , 2015, 81, 16-22.	1.4	75
30	Quartz luminescence response to a mixed alpha-beta field: Investigations on Romanian loess. <i>Radiation Measurements</i> , 2015, 81, 110-115.	1.4	4
31	Luminescence characteristics of quartz from Hsuehshan Range (Central Taiwan) and implications for thermochronometry. <i>Radiation Measurements</i> , 2015, 81, 104-109.	1.4	12
32	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. <i>Journal of Archaeological Science</i> , 2015, 58, 147-166.	2.4	83
33	OSL-thermochronometry of feldspar from the KTB borehole, Germany. <i>Earth and Planetary Science Letters</i> , 2015, 423, 232-243.	4.4	59
34	Quantification of termite bioturbation in a savannah ecosystem: Application of OSL dating. <i>Quaternary Geochronology</i> , 2015, 30, 334-341.	1.4	39
35	Feldspar, Infrared-Stimulated Luminescence. <i>Encyclopedia of Earth Sciences Series</i> , 2015, , 279-284.	0.1	1
36	Applications of self-interference cancellation in 5G and beyond. , 2014, 52, 114-121.		631

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37	Luminescence Instrumentation. Defect and Diffusion Forum, 2014, 357, 245-260.	0.4	1
38	Na-rich feldspar as a luminescence dosimeter in infrared stimulated luminescence (IRSL) dating. Radiation Measurements, 2013, 51-52, 67-82.	1.4	25
39	Effective closure temperature in leaky and/or saturating thermochronometers. Earth and Planetary Science Letters, 2013, 384, 209-218.	4.4	39
40	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
41	Dependence of (anomalous) fading of infra-red stimulated luminescence on trap occupancy in feldspars. Journal of Luminescence, 2013, 143, 704-709.	3.1	4
42	Thermal dependence of time-resolved blue light stimulated luminescence in $\hat{I}\pm\text{-Al}_2\text{O}_3\text{:C}$ . Journal of Luminescence, 2013, 136, 270-277.	3.1	14
43	On the trap depth of the IR-sensitive trap in Na- and K-feldspar. Radiation Measurements, 2013, 59, 103-113.	1.4	32
44	Ber Analysis for Various Modulation Techniques under Different Fading Environment. , 2012, , .		1
45	Re $\hat{e}$ Luminescence dating of K-feldspar from sediments: a protocol without anomalous fading correction $\hat{e}$ ™ by Bo Li and Sheng-Hua Li. Quaternary Geochronology, 2012, 8, 46-48.	1.4	10
46	Developing a SAR TT-OSL protocol for volcanically-heated aeolian quartz from Datong (China). Quaternary Geochronology, 2012, 10, 308-313.	1.4	5
47	Single-grain dating of young sediments using the pIRIR signal from feldspar. Quaternary Geochronology, 2012, 11, 28-41.	1.4	84
48	New luminescence measurement facilities in retrospective dosimetry. Radiation Measurements, 2012, 47, 803-808.	1.4	46
49	Modeling of the shape of infrared stimulated luminescence signals in feldspars. Radiation Measurements, 2012, 47, 870-876.	1.4	17
50	The dose dependency of the over-dispersion of quartz OSL single grain dose distributions. Radiation Measurements, 2012, 47, 732-739.	1.4	63
51	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
52	Red-IR stimulated luminescence in K-feldspar: Single or multiple trap origin?. Journal of Applied Physics, 2012, 112, 043507.	2.5	26
53	Stimulated luminescence emission from localized recombination in randomly distributed defects. Journal of Physics Condensed Matter, 2012, 24, 385402.	1.8	116
54	A robust feldspar luminescence dating method for Middle and Late $\langle\text{sc}\rangle\text{P}\langle/\text{sc}\rangle$ leistocene sediments. Boreas, 2012, 41, 435-451.	2.4	561

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55	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 5a-c. <i>Journal of Archaeological Science</i> , 2012, 39, 3071-3084.	2.4	58
56	Optically stimulated luminescence (OSL) as a chronometer for surface exposure dating. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	87
57	Surface exposure dating of non-terrestrial bodies using optically stimulated luminescence: A new method. <i>Icarus</i> , 2012, 221, 160-166.	2.5	38
58	Beyond full duplex wireless. , 2012, , .		37
59	The Video Face Book. <i>Lecture Notes in Computer Science</i> , 2012, , 495-506.	1.3	3
60	Practical, real-time, full duplex wireless. , 2011, , .		1,085
61	Utilisation of OSL from Table Salt in Retrospective Dosimetry. <i>Japanese Journal of Health Physics</i> , 2011, 46, 60-65.	0.1	5
62	The dating and interpretation of a Mode 1 site in the Luangwa Valley, Zambia. <i>Journal of Human Evolution</i> , 2011, 60, 549-570.	2.6	25
63	A new method for measuring bioturbation rates in sandy tidal flat sediments based on luminescence dating. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 92, 464-471.	2.1	13
64	Stability of IRSL signals from sedimentary K-feldspar samples. <i>Geochronometria</i> , 2011, 38, 1-13.	0.8	121
65	Investigating the resetting of OSL signals in rock surfaces. <i>Geochronometria</i> , 2011, 38, 249-258.	0.8	87
66	An attempt to correct for the fading in million year old basaltic rocks. <i>Geochronometria</i> , 2011, 38, 223-230.	0.8	8
67	Single channel, full-duplex wireless. , 2011, , .		0
68	The $\hat{\rho}$ factor. , 2010, , .		78
69	Charge recombination processes in minerals studied using optically stimulated luminescence and time-resolved exo-electrons. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 325502.	2.8	16
70	Achieving single channel, full duplex wireless communication. , 2010, , .		1,176
71	Granting silence to avoid wireless collisions. , 2010, , .		9
72	Extending the dose range: Probing deep traps in quartz with 3.06eV photons. <i>Radiation Measurements</i> , 2009, 44, 445-452.	1.4	55

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73	The case for a network protocol isolation layer. , 2009, , .		25
74	A coupled RL and transport model for mixed-field proton irradiation of Al <sub>2</sub> O <sub>3</sub> :C. Radiation Measurements, 2008, 43, 1049-1053.	1.4	6
75	SWAT. , 2008, , .		16
76	A Novel Technique for Denial of Service Identification in Optical Access Networks. , 2008, , .		1
77	MAWG: Multicasting Arrayed Waveguide Grating for WDM-PON Applications. , 2008, , .		1
78	Optical Dating of Late Quaternary Coastal Deposits in Northwestern Portugal. Journal of Coastal Research, 2008, 2, 134-144.	0.3	20
79	Visibility. , 2007, , .		47
80	Optical Burst Transport: A Technology for the WDM Metro Ring Networks. Journal of Lightwave Technology, 2007, 25, 93-102.	4.6	16
81	Optically stimulated luminescence dating: how significant is incomplete light exposure in fluvial environments? [ Datation par luminescence stimul�e optiquement : quelle signification en cas de blanchiment incomplet des s�diments fluviatiles ?]. Quaternaire, 2004, 15, 143-157.	0.2	163
82	Limits to depletion of blue-green light stimulated luminescence in feldspars: implications for quartz dating. Radiation Measurements, 2001, 33, 883-892.	1.4	113
83	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
84	Luminescence signals of quartz and feldspar as new methods for stratigraphic discrimination and provenance analysis of siliciclastic successions: The case of the Parna�ba Basin (Brazil) of West Gondwana. Basin Research, 0, , .	2.7	5