

Prantik Mandal

List of Publications by Year in descending order

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72
papers

1,058
citations

471371
17
h-index

477173
29
g-index

74
all docs

74
docs citations

74
times ranked

420
citing authors

#	ARTICLE	IF	CITATIONS
1	The deadliest stable continental region earthquake occurred near Bhuj on 26 January 2001. <i>Journal of Seismology</i> , 2001, 5, 609-615.	0.6	70
2	Sediment Thicknesses and Qs vs. Qp Relations in the Kachchh Rift Basin, Gujarat, India Using Sp Converted Phases. <i>Pure and Applied Geophysics</i> , 2007, 164, 135-160.	0.8	68
3	Relocation of aftershocks of the 2001 Bhuj earthquake: A new insight into seismotectonics of the Kachchh seismic zone, Gujarat, India. <i>Journal of Geodynamics</i> , 2010, 49, 254-260.	0.7	59
4	Seismic imaging of the aftershock zone of the 2001Mw7.7 Bhuj earthquake, India. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	57
5	Three-dimensional velocity imaging of the Kachchh seismic zone, Gujarat, India. <i>Tectonophysics</i> , 2008, 452, 1-16.	0.9	49
6	Sedimentary and crustal structure beneath Kachchh and Saurashtra regions, Gujarat, India. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 155, 286-299.	0.7	44
7	Self-organized Fractal Seismicity and b Value of Aftershocks of the 2001 Bhuj Earthquake in Kutch (India). <i>Pure and Applied Geophysics</i> , 2005, 162, 53-72.	0.8	38
8	Crustal and lithospheric thinning beneath the seismogenic Kachchh rift zone, Gujarat (India): Its implications toward the generation of the 2001 Bhuj earthquake sequence. <i>Journal of Asian Earth Sciences</i> , 2011, 40, 150-161.	1.0	34
9	Seismogenesis of the lower crustal intraplate earthquakes occurring in Kachchh, Gujarat, India. <i>Journal of Asian Earth Sciences</i> , 2011, 42, 479-491.	1.0	34
10	Estimation of Source Parameters for the Aftershocks of the 2001 Mw 7.7 Bhuj Earthquake, India. <i>Pure and Applied Geophysics</i> , 2006, 163, 1537-1560.	0.8	32
11	Coulomb static stress variations in the Kachchh, Gujarat, India: Implications for the occurrences of two recent earthquakes in the 2001 Bhuj earthquake region. <i>Geophysical Journal International</i> , 2007, 169, 281-285.	1.0	32
12	Ground-motion Attenuation Relation from Strong-motion Records of the 2001 Mw 7.7 Bhuj Earthquake Sequence (2001â€“2006), Gujarat, India. <i>Pure and Applied Geophysics</i> , 2009, 166, 451-469.	0.8	31
13	Seismogenesis of earthquakes occurring in the ancient rift basin of Kachchh, Western India. , 0, , 126-161.		27
14	Lithospheric thinning in the Eastern Indian Craton: Evidence for lithospheric delamination below the Archean Singhbhum Craton?. <i>Tectonophysics</i> , 2017, 698, 91-108.	0.9	27
15	Intraplate stress distribution induced by topography and crustal density heterogeneities beneath the south Indian shield, India. <i>Tectonophysics</i> , 1999, 302, 159-172.	0.9	22
16	Upper mantle seismic anisotropy in the intra-continental Kachchh rift zone, Gujarat, India. <i>Tectonophysics</i> , 2011, 509, 81-92.	0.9	21
17	Teleseismic receiver functions modeling of the eastern Indian craton. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 258, 1-14.	0.7	20
18	Iterative de-convolution of the local waveforms: Characterization of the seismic sources in Kachchh, India. <i>Tectonophysics</i> , 2009, 478, 143-157.	0.9	19

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19	Shear-wave splitting in Eastern Indian Shield: Detection of a Pan-African suture separating Archean and Meso-Proterozoic terrains. <i>Precambrian Research</i> , 2016, 275, 278-285.	1.2	19
20	Group velocity dispersion characteristics and one-dimensional regional shear velocity structure of the eastern Indian craton. <i>Journal of Asian Earth Sciences</i> , 2017, 134, 231-243.	1.0	18
21	Seismic imaging of the 2001 Bhuj Mw7.7 earthquake source zone: b-value, fractal dimension and seismic velocity tomography studies. <i>Tectonophysics</i> , 2011, 512, 1-11.	0.9	17
22	Relocation of Early and Late Aftershocks of the 2001 Bhuj Earthquake Using Joint Hypocentral Determination (JHD) Technique: Implication toward the Continued Aftershock Activity for more than Four Years. <i>Pure and Applied Geophysics</i> , 2006, 163, 1561-1581.	0.8	16
23	Estimation of static stress changes after the 2001 Bhuj earthquake: Implications towards the northward spatial migration of the seismic activity in Kachchh, Gujarat. <i>Journal of the Geological Society of India</i> , 2009, 74, 487-497.	0.5	16
24	Block-and-fault dynamics modelling of the Himalayan frontal arc: Implications for seismic cycle, slip deficit, and great earthquakes. <i>Journal of Asian Earth Sciences</i> , 2017, 148, 131-141.	1.0	15
25	Modelling the seismic potential of the Indo-Burman megathrust. <i>Scientific Reports</i> , 2021, 11, 21200.	1.6	15
26	Shallow lithosphere-asthenosphere boundary beneath Cambay Rift Zone of India: Inferred presence of carbonated partial melt. <i>Journal of the Geological Society of India</i> , 2016, 88, 401-406.	0.5	14
27	Stress Rotation in the Kachchh Rift Zone, Gujarat, India. <i>Pure and Applied Geophysics</i> , 2008, 165, 1307-1324.	0.8	13
28	A possible physical mechanism for the unusually long sequence of seismic activity following the 2001 Bhuj Mw7.7 earthquake, Gujarat, India. <i>Tectonophysics</i> , 2012, 536-537, 101-109.	0.9	13
29	Variations of seismic velocities in the Kachchh rift zone, Gujarat, India, during 2001–2013. <i>Tectonophysics</i> , 2016, 672-673, 68-86.	0.9	13
30	A possible origin of intraplate earthquakes in the Kachchh rift zone, India, since the 2001 Mw7.7 Bhuj earthquake. <i>Journal of Asian Earth Sciences</i> , 2019, 170, 56-72.	1.0	13
31	Modelling of crustal composition and Moho depths and their Implications toward seismogenesis in the Kumaon–Garhwal Himalaya. <i>Scientific Reports</i> , 2021, 11, 14067.	1.6	13
32	Crustal shear-wave splitting in the epicentral zone of the 2001 Mw 7.7 Bhuj earthquake, Gujarat, India. <i>Journal of Geodynamics</i> , 2009, 47, 246-258.	0.7	12
33	Seismogenesis of the uninterrupted occurrence of the aftershock activity in the 2001 Bhuj earthquake zone, Gujarat, India, during 2001–2010. <i>Natural Hazards</i> , 2013, 65, 1063-1083.	1.6	12
34	Three-dimensional modeling of intraplate stresses in the epicentral zone of the 21 May 1997 Jabalpur earthquake of Mw 5.8, central India. <i>Tectonophysics</i> , 2010, 485, 1-8.	0.9	11
35	Variations in crustal and lithospheric structure across the Eastern Indian Shield from passive seismic source imaging: Implications to changes in the tectonic regimes and crustal accretion through the Precambrian. <i>Precambrian Research</i> , 2021, 360, 106207.	1.2	11
36	Numerical modeling of seismicity and geodynamics of the Kachchh rift zone, Gujarat, India. <i>Tectonophysics</i> , 2014, 634, 31-43.	0.9	10

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37	Passive source seismic imaging of the crust and upper mantle underlying the Archean Singhbhum Craton, Eastern India. <i>Journal of Asian Earth Sciences</i> , 2019, 176, 300-314.	1.0	9
38	Source parameters of the 2001 Mw 7.7 Bhuj earthquake, Gujarat, India, aftershock sequence. <i>Journal of the Geological Society of India</i> , 2014, 83, 517-531.	0.5	8
39	Evidence for non-self-similarity in the M w 7.7 2001 Bhuj earthquake sequence. <i>Natural Hazards</i> , 2015, 75, 1577-1598.	1.6	8
40	An Appraisal of Recent Earthquake Activity in Palghar Region, Maharashtra, India. <i>Current Science</i> , 2020, 118, 1592.	0.4	8
41	Upper Mantle Shear Velocity Structure below Northwestern India Based on Group Velocity Dispersion. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 2713-2723.	1.1	7
42	Lapse time dependent coda-Q (Q c) in the Kachchh, rift zone, Gujarat, India. <i>Natural Hazards</i> , 2016, 81, 1589-1610.	1.6	7
43	Estimation of earthquake source parameters in the Kachchh seismic zone, Gujarat, India, using three component S-wave spectra. <i>Journal of Earth System Science</i> , 2017, 126, 1.	0.6	7
44	Characterization of earthquake hazard at the Palghar and Pulichintala swarm activity regions (India) through three-dimensional modelling of b-value and fractal (correlation) dimensions. <i>Natural Hazards</i> , 2021, 108, 1183-1196.	1.6	7
45	Sediment Thicknesses and QSâ€“QP Relations in the Kachchh Rift Basin, Gujarat, India, Using Converted Phases. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 2532-2539.	1.1	6
46	Seismic velocity imaging of the Kumaonâ€“Garhwal Himalaya, India. <i>Natural Hazards</i> , 2022, 111, 2241-2260.	1.6	6
47	Influence of Deccan volcanism/synrift magmatism on the crustâ€“mantle structure and its implications for the seismogenesis of earthquakes occurring in the Kachchh rift zone. <i>Geological Society Special Publication</i> , 2017, 445, 189-218.	0.8	5
48	Three-dimensional seismic velocity imaging of the Kachchh rift zone, Gujarat, India: Implications toward the crustal mafic pluton induced intraplate seismicity. <i>Journal of Asian Earth Sciences</i> , 2020, 192, 104226.	1.0	5
49	Simultaneous estimation of earthquake source parameters and crustal Q value from broadband data of selected aftershocks of the 2001 M w 7.7 Bhuj earthquake. <i>Journal of Earth System Science</i> , 2012, 121, 1421-1440.	0.6	4
50	Moment Tensor Solutions of some Selected Local Events: Implications towards the Present-day Tectonics of the Kachchh Rift zone. <i>Journal of the Geological Society of India</i> , 2018, 91, 158-164.	0.5	4
51	Pn tomography and anisotropic study of the Indian shield and the adjacent regions. <i>Tectonophysics</i> , 2021, 813, 228932.	0.9	4
52	Modeling of source parameters and moment tensors of local earthquakes occurring in the eastern Indian shield. <i>Journal of the Geological Society of India</i> , 2017, 89, 619-630.	0.5	3
53	Estimation of coda Q for the eastern Indian craton. <i>Journal of Earth System Science</i> , 2019, 128, 1.	0.6	3
54	Relocations and local earthquake tomography: Implications toward the mafic pluton induced crustal seismicity in Kachchh, Gujarat, India, for last 18Â“years. <i>Journal of Asian Earth Sciences</i> , 2020, 190, 104196.	1.0	3

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55	Upper mantle seismic anisotropy beneath the Kachchh rift zone, Gujarat, India, from shear wave splitting analysis. Journal of Earth System Science, 2020, 129, 1.	0.6	3
56	Lessons Learned from the Occurrences of Major Devastating Mw 7.5 Earthquakes in the Asian Countries during the last 25 years. Journal of the Geological Society of India, 2021, 97, 1494-1497.	0.5	3
57	Evidence for a fluid flow triggered spatio-temporal migration of seismicity in the 2001 Mw 7.7 Bhuj earthquake region, Gujarat, India, during 2001–2013. Journal of Earth System Science, 2016, 125, 1285-1298.	0.6	2
58	P-Wave Teleseismic Tomography: Evidence of Imprints of Deccan Mantle Plume below the Kachchh Rift Zone, Gujarat, India. , 2020, , .		2
59	Delineation of Average 1-D Shear Velocity Structure below North India by Surface Wave Dispersion Study. Journal of the Geological Society of India, 2020, 96, 58-64.	0.5	2
60	Modeling of source parameters of the 15 December 2015 Deogarh earthquake of Mw 4.0. Journal of the Geological Society of India, 2017, 89, 363-368.	0.5	1
61	Evidence of a Large Triggered Event in the Nepal Himalaya Following the Gorkha Earthquake: Implications Toward Enhanced Seismic Hazard. Pure and Applied Geophysics, 2018, 175, 2807-2819.	0.8	1
62	Three-dimensional ground motion modelling in the Kachchh rift zone, Gujarat, India. Physics of the Earth and Planetary Interiors, 2019, 297, 106322.	0.7	1
63	Modelling of earthquake locations and source parameters in Kachchh region to understand genesis of earthquakes. Journal of Earth System Science, 2020, 129, 1.	0.6	1
64	Modelling of Moment Tensors and Source Parameters of the 25 July 2021 Rare Lower Crustal Hyderabad (India) Earthquake of Mw 3.9. Pure and Applied Geophysics, 2022, 179, 993-1010.	0.8	1
65	Delineation of crustal and lithospheric structure below the 2019 Palghar swarm activity region, Maharashtra, India. Natural Hazards, 2022, 114, 205-235.	1.6	1
66	Source characteristics of the upper mantle 21 May, 2014 Bay of Bengal earthquake of M_w 5.9. Journal of Earth System Science, 2019, 128, 1.	0.6	0
67	Strong ground motions from two moderate size (Mw5.5) Kachchh intraplate earthquakes, Gujarat, India. Natural Hazards, 2020, 103, 2441-2458.	1.6	0
68	Magnitude estimation of regional earthquakes in India and its adjoining region. Journal of Earth System Science, 2020, 129, 1.	0.6	0
69	Seismic velocity images of a crystallized crustal magma-conduit (related to the Deccan plume) below the seismically active Kachchh rift zone, Gujarat, India. Natural Hazards, 2022, 111, 239-260.	1.6	0
70	Structure of the Seismically Active Kachchh Region. Journal of the Geological Society of India, 2021, 97, 1163-1168.	0.5	0
71	Simultaneous estimation of site response and source parameters of reservoir-triggered earthquakes using data from the borehole seismic network in the Koyna–Warna seismic zone, Maharashtra, India. Natural Hazards, 0, , 1.	1.6	0
72	Delineation of detailed crustal seismic velocity structure and Moho depths in the Hyderabad region, eastern Dharwar craton, India. Natural Hazards, 0, , .	1.6	0