Sumer Chopra

List of Publications by Year
in descending order

80 papers	1,301 citations	361045 20 h-index	476904 29 g-index
82 all docs	82 docs citations	82 times ranked	658 citing authors

#	Article	IF	Citations
1	Development of empirical relationship between the observed and the estimated ground acceleration values of small to moderate earthquakes in northwest (Gujarat) and northeast (NE) regions of India. Geomatics, Natural Hazards and Risk, 2022, 13, 364-389.	2.0	2
2	Variation in Moho topography and Poisson's ratio in the Eastern Himalayan arc. Physics and Chemistry of the Earth, 2022, , 103134.	1.2	0
3	Occurrence of small to moderate magnitude earthquakes in Kachchh intraplate zone: A special emphasis to the 2020 Bhachau earthquake. Journal of Asian Earth Sciences: X, 2022, 7, 100089.	0.6	1
4	Multi-criteria approach using GIS for macro-level seismic hazard assessment of Kachchh Rift Basin, Gujarat, western India â€“ First step towards earthquake disaster mitigation. Journal of Earth System Science, 2022, 131, 1.	0.6	3
5	Micro-seismic hazard assessment of Ahmedabad city, Gujarat (Western India) through near-surface characterization/soil modeling. Bulletin of Earthquake Engineering, 2021, 19, 623-656.	2.3	9
6	Seismic Monitoring in Gujarat, India, during 2020 Coronavirus Lockdown and Lessons Learned. Seismological Research Letters, 2021, 92, 849-858.	0.8	4
7	Joint inversion for stress and fault orientations using focal mechanisms of earthquakes in the Saurashtra horst, a part of stable continental region of India, and source parameter estimation. Journal of Seismology, 2021, 25, 1141-1159.	0.6	6
8	Structural Interpretation Over the Epicentre Zone of 1819 Allah-Bund Earthquake, North-Western India in An Intraplate Setup Using Global Gravity Data. Journal of the Indian Society of Remote Sensing, 2021, 49, 2741.	1.2	1
9	Magnetotelluric investigation in the swarm prone intraplate Talala region of Saurashtra, Gujarat, western India. Journal of Applied Geophysics, 2021, 192, 104381.	0.9	2
10	Magnetotelluric evidence for trapped fluids beneath the seismogenic zone of the Mw6.0 Anjar earthquake, Kachchh intraplate region, Northwest India. Tectonophysics, 2021, 814, 228969.	0.9	7
11	Multi criteria study for seismic hazard assessment of UNESCO world heritage Ahmedabad City, Gujarat, Western India. Bulletin of Engineering Geology and the Environment, 2020, 79, 1721-1733.	1.6	9
12	Geotechnical Investigation for Estimation of Liquefaction Hazard for the Capital City of Gujarat State, Western India. Geotechnical and Geological Engineering, 2020, 38, 6551-6570.	0.8	3
13	Delineation of thickness of intrabasaltic rocks beneath the Deccan Volcanic province of western India through microtremor analysis. Soil Dynamics and Earthquake Engineering, 2020, 138, 106348.	1.9	10
14	Characterization of Major Fault Systems in the Kachchh Intraplate Region, Gujarat, India, by Focal Mechanism and Source Parameters. Seismological Research Letters, 2020, 91, 3496-3517.	0.8	5
15	Estimation of near surface attenuation parameter kappa (Î¤) in Northwest and Northeast Himalaya region. Soil Dynamics and Earthquake Engineering, 2020, 136, 106237.	1.9	7
16	Soft Sediment Deformation Structures in Quaternary Sediments from Dadra and Nagar Haveli, Western India. Journal of the Geological Society of India, 2020, 95, 455-464.	0.5	7
17	A local magnitude scale ML for the Saurashtra horst: An active intraplate region, Gujarat, India. Journal of Earth System Science, 2020, 129, 1.	0.6	3
18	Source Parameters and Scaling Relations for Moderate Size Earthquakes in Northâ€“East India Region. Pure and Applied Geophysics, 2019, 176, 45-64.	0.8	9

#	Article	IF	Citations
19	VS30mapping and site characterization in the seismically active intraplate region of Western India: implications for risk mitigation. Near Surface Geophysics, 2019, 17, 533-546.	0.6	17
20	GPS derived crustal deformation analysis of Kachchh, zone of 2001(M7.7) earthquake, Western India. Quaternary International, 2019, 507, 295-301.	0.7	30
21	Are earthquake swarms in South Gujarat, northwestern Deccan Volcanic Province of India monsoon induced?. Environmental Earth Sciences, 2019, 78, 1.	1.3	13
22	A Local Magnitude Scale (ML) for the Kachchh Rift Basin: An Active Intraplate Region, Gujarat, India. Bulletin of the Seismological Society of America, 2019, 109, 34-42.	1.1	2
23	Local site effect incorporation in probabilistic seismic hazard analysis â€“ A case study from southern peninsular India, an intraplate region. Soil Dynamics and Earthquake Engineering, 2019, 123, 381-398.	1.9	16
24	An appraisal of crustal structure of the Indo-Burmese subduction region. Journal of Geodynamics, 2019, 127, 16-30.	0.7	14
25	Probabilistic Seismic Hazard Assessment of Mangalore and Its Adjoining Regions, A Part of Indian Peninsular: An Intraplate Region. Pure and Applied Geophysics, 2019, 176, 2263-2297.	0.8	9
26	New Insight into the Recent Earthquake Activity in North Cambay Basin, Western India: Seismological and Geodetic Perspectives. Bulletin of the Seismological Society of America, 2019, 109, 2240-2251.	1.1	4
27	Rapid seismic hazard assessment of the Sabarmati River basin in Gujarat State, Western India using GIS techniques. Bulletin of Engineering Geology and the Environment, 2019, 78, 3927-3942.	1.6	5
28	Magnetotelluric study to characterize Kachchh Mainland Fault (KMF) and Katrol Hill Fault (KHF) in the western part of Kachchh region of Gujarat, India. Tectonophysics, 2018, 726, 43-61.	0.9	15
29	Study of crustal structure and geological implications of southwestern margin of Northeast India. Journal of Seismology, 2018, 22, 229-249.	0.6	6
30	Site classification of Indian strong motion network using response spectra ratios. Journal of Seismology, 2018, 22, 419-438.	0.6	18
31	Surface Level Synthetic Ground Motions for M7.6 2001 Gujarat Earthquake. Geosciences (Switzerland), 2018, 8, 429.	1.0	5
32	Influence of Local Site Effects in the Ahmedabad Mega City on the Damage due to Past Earthquakes in Northwestern India. Bulletin of the Seismological Society of America, 2018, 108, 2170-2182.	1.1	25
33	A review of seismic hazard assessment of Gujarat: A highly active intra-plate region. Earth-Science Reviews, 2018, 187, 205-218.	4.0	18
34	Transient Electromagnetic Investigations in a Tectonic Domain of the Kachchh Intraplate Region, Western India: A Morphotectonic Study of the Kachchh Mainland Fault. Tectonics, 2018, 37, 4239-4260.	1.3	14
35	Joint Modeling of Velocity Structure and Hypocentral Locations in the Seismically Active Kachchh, Saurashtra, and Narmada Regions of Western India: An Active Intraplate Region. Seismological Research Letters, 2017, 88, 1390-1402.	0.8	12
36	Forecasting seismicity rate in the north-west Himalaya using rate and state dependent friction law. Geomatics, Natural Hazards and Risk, 2017, 8, 1643-1661.	2.0	6

#	Article	IF	Citations
37	Microtremor study for evaluating the site response characteristics in the Surat City of western India. Natural Hazards, 2017, 89, 1145-1166.	1.6	17
38	Shallow Sedimentary Structure of the Brahmaputra Valley Constraint from Receiver Functions Analysis. Pure and Applied Geophysics, 2017, 174, 229-247.	0.8	12
39	Isoseismal map of the 2015 Nepal earthquake and its relationships with ground-motion parameters, distance and magnitude. Journal of Asian Earth Sciences, 2017, 133, 24-37.	1.0	12
40	Revisiting the 1956 Anjar Earthquake in Western India: Empirical Greenâ€™s Function Approach. Bulletin of the Seismological Society of America, 2017, 107, 592-602.	1.1	3
41	Estimation of the source parameters of the Nepal earthquake from strong motion data. Natural Hazards, 2016, 83, 867-883.	1.6	7
42	A study of characteristics of ground motion response spectra from earthquakes recorded in NE Himalayan region: an active plate boundary. Natural Hazards, 2016, 84, 2195-2210.	1.6	11
43	Estimation of source parameters and scaling relations for moderate size earthquakes in North-West Himalaya. Journal of Asian Earth Sciences, 2016, 128, 79-89.	1.0	12
44	Ground motion modelling in the Gujarat region of Western India using empirical Green's function approach. Tectonophysics, 2016, 675, 7-22.	0.9	11
45	Site classification for strong motion stations in Gujarat, India using response spectral ratio. Soil Dynamics and Earthquake Engineering, 2016, 87, 138-150.	1.9	7
46	Time-dependent seismicity analysis in the Northwest Himalaya and its adjoining regions. Natural Hazards, 2016, 80, 1783-1800.	1.6	21
47	Simulation of strong ground motion for 1905 Kangra earthquake and a possible megathrust earthquake (Mw 8.5) in western Himalaya (India) using Empirical Greenâ€™s Function technique. Natural Hazards, 2016, 80, 487-503.	1.6	12
48	Crustal imaging of the Northwest Himalaya and its foredeep region from teleseismic events. Geomatics, Natural Hazards and Risk, 2016, 7, 1265-1286.	2.0	11
49	Statistical analysis of aftershock sequences related with two major Nepal earthquakes: April 25, 2015, MW 7.8, and May 12, 2015, MW 7.2. Annals of Geophysics, 2016, 59, .	0.5	4
50	Frequency dependent attenuation of seismic waves for Delhi and surrounding area, India. Annals of Geophysics, 2015, 58, .	0.5	6
51	Estimation of Source Parameters, Quality Factor (QS), and Site Characteristics Using Accelerograms: Uttarakhand Himalaya Region. Bulletin of the Seismological Society of America, 2014, 104, 360-380.	1.1	22
52	An assessment of seismicity parameters in northwest Himalaya and adjoining regions. Natural Hazards, 2014, 71, 1599-1616.	1.6	20
53	A review of strong motion studies in Gujarat State of western India. Natural Hazards, 2014, 71, 1241-1257.	1.6	4
54	Estimation of Source Parameters of M w 6.9 Sikkim Earthquake and Modeling of Ground Motions to Determine Causative Fault. Pure and Applied Geophysics, 2014, 171, 1311-1328.	0.8	14

#	Article	IF	Citations
55	Crustal structure of the Gujarat region, India: New constraints from the analysis of teleseismic receiver functions. Journal of Asian Earth Sciences, 2014, 96, 237-254.	1.0	35
56	Intensity map of Mw 6.9 2011 Sikkimâ€“Nepal border earthquake and its relationships with PGA: distance and magnitude. Natural Hazards, 2013, 69, 1781-1801.	1.6	12
57	Estimation of Strong Ground Motion from a Great Earthquake Mw 8.5 in Central Seismic Gap Region, Himalaya (India) Using Empirical Greenâ€™s Function Technique. Pure and Applied Geophysics, 2013, 170, 2127-2138.	0.8	23
58	Intensity distribution of M 4.9 Haryanaâ€“Delhi border earthquake. Natural Hazards, 2013, 68, 405-417.	1.6	7
59	Estimation of site amplification functions in Gujarat region, India. Natural Hazards, 2013, 65, 1135-1155.	1.6	27
60	Estimation of seismic hazard in Gujarat region, India. Natural Hazards, 2013, 65, 1157-1178.	1.6	26
61	Post-seismic deformation associated with the 2001 Bhuj earthquake. Natural Hazards, 2013, 65, 1109-1118.	1.6	11
62	Causative source of Mw6.9 Sikkimâ€“Nepal border earthquake of September 2011: GPS baseline observations and strain analysis. Journal of Asian Earth Sciences, 2013, 70-71, 179-192.	1.0	21
63	An evaluation of tsunami hazard using Bayesian approach in the Indian Ocean. Tectonophysics, 2013, 593, 172-182.	0.9	21
64	Modeling of strong ground motions for 1991 Uttarkashi, 1999 Chamoli earthquakes, and a hypothetical great earthquake in Garhwalâ€“Kumaun Himalaya. Natural Hazards, 2012, 64, 1141-1159.	1.6	33
65	Ambient noise levels in Gujarat State (India) seismic network. Geomatics, Natural Hazards and Risk, 2012, 3, 342-354.	2.0	18
66	Tectonic implications and seismicity triggering during the 2008 Baluchistan, Pakistan earthquake sequence. Journal of Asian Earth Sciences, 2012, 45, 167-178.	1.0	52
67	A Probabilistic Assessment of Earthquake Hazard Parameters in NW Himalaya and the Adjoining Regions. Pure and Applied Geophysics, 2012, 169, 1619-1639.	0.8	39
68	Stochastic finite fault modelling of M w 4.8 earthquake in Kachchh, Gujarat, India. Journal of Seismology, 2012, 16, 435-449.	0.6	16
69	Attenuation characteristics of coda waves in Mainland Gujarat (India). Tectonophysics, 2012, 530-531, 264-271.	0.9	18
70	Deterministic seismic scenario for Gujarat region, India. Natural Hazards, 2012, 60, 517-540.	1.6	26
71	The 2007 Talala, Saurashtra, western India earthquake sequence: Tectonic implications and seismicity triggering. Journal of Asian Earth Sciences, 2011, 40, 303-314.	1.0	59
72	Attenuation of High Frequency P and S Waves in the Gujarat Region, India. Pure and Applied Geophysics, 2011, 168, 797-813.	0.8	26

#	Article	IF	Citations
73	A study of response spectra for different geological conditions in Gujarat, India. Soil Dynamics and Earthquake Engineering, 2011, 31, 1551-1564.	1.9	32
74	Estimation of Sedimentary Thickness in Kachchh Basin, Gujarat Using SP Converted Phase. Pure and Applied Geophysics, 2010, 167, 1247-1257.	0.8	18
75	Probabilistic Assessment of Earthquake Recurrence in Northeast India and Adjoining Regions. Pure and Applied Geophysics, 2010, 167, 1331-1342.	0.8	52
76	Estimation of Strong Ground Motions for 2001 Bhuj (M w 7.6), India Earthquake. Pure and Applied Geophysics, 2010, 167, 1317-1330.	0.8	22
77	An application of regional time and magnitude predictable model for long-term earthquake prediction in the vicinity of October 8, 2005 Kashmir Himalaya earthquake. Natural Hazards, 2010, 54, 985-1014.	1.6	23
78	A Homogeneous and Complete Earthquake Catalog for Northeast India and the Adjoining Region. Seismological Research Letters, 2009, 80, 609-627.	0.8	53
79	Probabilistic Assessment of Earthquake Hazard in Gujarat and Adjoining Region of India. Pure and Applied Geophysics, 2008, 165, 1813-1833.	0.8	51
80	The Gujarat (India) Seismic Network. Seismological Research Letters, 2008, 79, 806-815.	0.8	57