Vinay Gupta

List of Publications by Year
in descending order

35 papers	827 citations	623734 14 h-index	501196 28 g-index
35 all docs	35 docs citations	35 times ranked	543 citing authors

#	Article	IF	Citations
1	Wavelet-based generation of spectrum-compatible time-histories. Soil Dynamics and Earthquake Engineering, 2002, 22, 799-804.	3.8	168
2	A Probabilistic Seismic Hazard Analysis of Northeast India. Earthquake Spectra, 2006, 22, 1-27.	3.1	109
3	Non-stationary seismic response of MDOF systems by wavelet transform. Earthquake Engineering and Structural Dynamics, 1997, 26, 1243-1258.	4.4	70
4	Near-fault fling-step ground motions: Characteristics and simulation. Soil Dynamics and Earthquake Engineering, 2017, 101, 90-104.	3.8	59
5	Wavelet-based characterization of design ground motions. Earthquake Engineering and Structural Dynamics, 2002, 31, 1173-1190.	4.4	49
6	Scaling of ductility and damage-based strength reduction factors for horizontal motions. Earthquake Engineering and Structural Dynamics, 2000, 29, 969-987.	4.4	44
7	Stochastic seismic response of single-degree-of-freedom systems through wavelets. Engineering Structures, 2000, 22, 1714-1722.	5.3	44
8	Scaling of strength reduction factors for degrading elasto-plastic oscillators. Earthquake Engineering and Structural Dynamics, 2005, 34, 189-206.	4.4	29
9	Wavelet-based generation of spatially correlated accelerograms. Soil Dynamics and Earthquake Engineering, 2016, 87, 116-124.	3.8	21
10	Stochastic seismic response of multiply-supported secondary systems in flexible-base structures. Earthquake Engineering and Structural Dynamics, 1999, 28, 351-369.	4.4	19
11	A preliminary prediction of seismic damage-based degradation in RC structures. Earthquake Engineering and Structural Dynamics, 2001, 30, 981-993.	4.4	19
12	A probabilistic assessment of seismic damage in ductile structures. Earthquake Engineering and Structural Dynamics, 1995, 24, 1333-1342.	4.4	18
13	ON THE CHARACTERISATION OF THE PHASE SPECTRUM FOR STRONG MOTION SYNTHESIS. Journal of Earthquake Engineering, 2001, 5, 465-482.	2.5	17
14	Response of multiply supported secondary systems to earthquakes in frequency domain. Earthquake Engineering and Structural Dynamics, 1998, 27, 187-201.	4.4	16
15	Mode-acceleration approach to seismic response of multiply-supported secondary systems. Earthquake Engineering and Structural Dynamics, 2002, 31, 1603-1621.	4.4	13
16	Scaling of constant-ductility residual displacement spectrum. Earthquake Engineering and Structural Dynamics, 2020, 49, 215-233.	4.4	12
17	Scaling of residual displacements in terms of elastic and inelastic spectral displacements for existing SDOF systems. Earthquake Engineering and Engineering Vibration, 2020, 19, 71-85.	2.3	12
18	Wavelet-based non-stationary response analysis of a friction base-isolated structure. Earthquake Engineering and Structural Dynamics, 2000, 29, 1659-1676.	4.4	10

#	Article	IF	Citations
19	A new approximation for spectral velocity ordinates at short periods. Earthquake Engineering and Structural Dynamics, 2009, 38, 941-949.	4.4	8
20	A new model for spectral velocity ordinates at long periods. Earthquake Engineering and Structural Dynamics, 2018, 47, 169-194.	4.4	8
21	On estimation of seismic damage from ductility and hysteretic energy demands in equivalent oscillators using linear response. Engineering Structures, 2018, 172, 663-686.	5.3	8
22	Normalized Residual Displacements for Bilinear and Pinching Oscillators. Journal of Structural Engineering, 2020, 146, .	3.4	8
23	Dynamic soil-structure interaction effects on the seismic response of suspension bridges. Earthquake Engineering and Structural Dynamics, 1999, 28, 1383-1403.	4.4	7
24	A parametric study of strength reduction factors for elasto-plastic oscillators. Sadhana - Academy Proceedings in Engineering Sciences, 2006, 31, 343-357.	1.3	7
25	Surface Rotations Due to Kinematic Shear Dislocation Point Source in a Multilayered Elastic Medium. Bulletin of the Seismological Society of America, 2019, 109, 433-447.	2.3	7
26	A damage-based definition of effective peak acceleration. Earthquake Engineering and Structural Dynamics, 1998, 27, 503-512.	4.4	6
27	Estimation of strength reduction factorsvia normalized pseudo-acceleration response spectrum. Earthquake Engineering and Structural Dynamics, 2007, 36, 751-763.	4.4	6
28	On nonstationarity-related errors in modal combination rules of the response spectrum method. Journal of Sound and Vibration, 2017, 407, 106-127.	3.9	6
29	Wavelet-based generation of accelerogram-consistent, spectrum-compatible motions: New algorithms and short-period overestimation. Soil Dynamics and Earthquake Engineering, 2019, 121, 327-340.	3.8	6
30	A response-based decoupling criterion for multiply-supported secondary systems. Earthquake Engineering and Structural Dynamics, 2002, 31, 1541-1562.	4.4	5
31	Planar Seismic Wavefront Modeling for Estimating Rotational Ground Motions: Case of 2D P-SV Line Source. Journal of Engineering Mechanics - ASCE, 2018, 144, .	2.9	4
32	A note on spectral velocity approximation at shorter intermediate periods. Soil Dynamics and Earthquake Engineering, 2021, 141, 106422.	3.8	4
33	Peak Factorâ€"Based Modal Combination Rule of Response-Spectrum Method for Peak Floor Accelerations. Journal of Structural Engineering, 2021, 147, .	3.4	4
34	Effect of residual displacement and sequence of events on Design Force Ratio spectrum. Soil Dynamics and Earthquake Engineering, 2020, 131, 105974.	3.8	2
35	An improved planar wavefront model to estimate rocking seismic motion spectra using translational spectra at a single station. Soil Dynamics and Earthquake Engineering, 2021, 144, 106612.	3.8	2