

# List of scientific papers and meeting presentations

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- *Peer-reviewed papers (ISI Journals)*

1. Lengliné, O., **B. Enescu**, Z. Peng, and K. Shiomi, Decay and expansion of the early aftershock activity following the 2011, Mw9.0 Tohoku earthquake, *Geophys. Res. Lett.*, 39, L18309, doi:10.1029/2012GL052797, 2012.
2. Hirose, H., H. Kimura, **B. Enescu**, and S. Aoi, Recurrent slow slip event likely hastened by the 2011 Tohoku earthquake, *Proc. Natl. Acad. Sci. USA*, 109, 38, 15157-15161, doi:10.1073/pnas.1202709109, 2012.
3. **Enescu, B.**, S. Aoi, S. Toda, W. Suzuki, K. Obara, K. Shiomi, and T. Takeda, Stress perturbations and seismic response associated with the 2011 M9.0 Tohoku-oki earthquake in and around the Tokai seismic gap, central Japan, *Geophys. Res. Lett.*, 39, L00G28, doi:10.1029/2012GL051839, 2012.
4. Marsan, D. and **B. Enescu**, Modeling the foreshock sequence prior to the 2011, Mw9.0 Tohoku, Japan, earthquake, *J. Geophys. Res.*, 117, B06316, doi:10.1029/2011JB009039, 2012.
5. Peng, Z., Aiken, C., Kilb, D., Shelly, D. and **B. Enescu**, Listening to the 2011 magnitude 9.0 Tohoku-Oki, Japan earthquake, *Seismol. Res. Lett.*, 83, 2, 287-293, doi:10.1785/gssrl.83.2.287, 2012.
6. Woessner, J., Hainzl, S., Marzocchi, W., Werner, M.J., Lombardi, A.M., Catalli, F., **Enescu, B.**, Cocco, M., Gerstenberger, M., and S. Wiemer, A retrospective comparative test for the 1992 Landers sequence, *J. Geophys. Res.*, 116, B05305, doi:10.1029/2010JB007846, 2011.
7. Toda, S., and **B. Enescu**, Rate/state Coulomb stress transfer model for the CSEP Japan seismicity forecast, *Earth Planets Space*, doi:10.5047/eps.2011.01.004, 63, 171-185, 2011.
8. Aoi, S., **Enescu, B.**, Suzuki, W., Asano Y., Obara K., Kunugi T. and K. Shiomi, Stress transfer in the Tokai subduction zone from the 2009 Suruga Bay earthquake in Japan, *Nature Geoscience*, 3, 7, 496-500, doi:10.1038/ngeo885, 2010.
9. Koulakov, I., Zaharia, B., **Enescu, B.**, Radulian, M., Popa, M., Parolai, S., and J. Zschau, Delamination or slab detachment beneath Vrancea? New arguments from local earthquake tomography, *Geochem. Geophys. Geosyst. (G<sup>3</sup>)*, 11, 3, Q03002, doi:10.1029/2009GC002811, 2010.
10. Cocco, M., Hainzl, S., Catalli, F., **Enescu, B.**, Lombardi, A.M., and J. Woessner, Sensitivity study of forecasted aftershock seismicity based on Coulomb stress calculation and rate- and state-dependent frictional response, *J. Geophys. Res.*, B05307, doi:10.1029/2009JB006838, 2010.
11. **Enescu, B.**, Hainzl, S. and Y. Ben-Zion, Correlations of seismicity patterns in Southern California with surface heat flow data, *Bull. Seismol. Soc. Am.*, 99, 6, 3114-3123, doi:10.1785/0120080038, 2009.
12. Wang, L.F., Wang, R., Roth, F., **Enescu, B.**, Hainzl, S., and S. Ergintav, Afterslip and viscoelastic relaxation following the 1999 M7.4 İzmit earthquake, from GPS measurements, *Geophys. J. Int.*, 178, 1220-1237, doi:10.1111/j.1365-246X.2009.04228.x, 2009.
13. Hainzl, S., **Enescu, B.**, Cocco, M., Woessner, J., Catalli, F., Wang, R. and F. Roth, Aftershock modeling based on uncertain stress calculations, *J. Geophys. Res.*, 114, B05309, doi: 10.1029/2008JB006011, 2009.
14. **Enescu, B.**, Mori, J., Miyazawa, M., and Y. Kano, Omori-Utsu law c-values associated with recent moderate earthquakes in Japan, *Bull. Seismol. Soc. Am.*, 99, 2A, 884-891, doi: 10.1785/0120080211, 2009.
15. Iio, Y., Shibutani, T., Matsumoto, S., Katao, H., Matsushima, T., Ohmi, S., Takeuchi, F., Uehira, K., Nishigami, K., Miyazawa, M., **Enescu, B.**, Hirose, I., Kano, Y., Kohno, Y., Tatsumi, K., Ueno, T., Wada, H., and Y. Yukutake, Precise aftershock distribution of the 2004 Mid-Niigata prefecture earthquake—Implication for a very weak region in the lower crust, *Phys. Earth Planet. Inter., Elsevier Science*, 172, 345-352, doi:10.1016/j.pepi.2008.10.014, 2009.

16. Hainzl, S., Christophersen, A., and **B. Enescu**, Impact of earthquake rupture extensions on parameter estimations of point-process modeling, *Bull. Seismol. Soc. Am.*, 98(4), 2066-2072, doi: 10.1785/0120070256, 2008.
17. Mori, J., Kano, Y., and **B. Enescu**, Comparison of early aftershock sequences for the 2004 Mid-Niigata and 2007 Noto Hanto Earthquakes in Central Japan, *Earth Planets Space, Terra Scientific Publishing Comp., Tokyo*, 60, 151-154, 2008.
18. **Enescu, B.**, Struzik, Z.R., and K. Kiyono, On the recurrence time of earthquakes: insight from Vrancea (Romania) intermediate-depth events, *Geophys. J. Int.*, Blackwell Publishing, 172, 395-404, doi 10.1111/j.1365-246X.2007.03664.x, 2008.
19. **Enescu, B.**, Mori, J. and M. Miyazawa, Quantifying early aftershock activity of the 2004 mid-Niigata Prefecture earthquake ( $M_w$ 6.6), *J. Geophys. Res.*, 112, B04310, doi: 10.1029/2006JB004629, 2007.
20. Nanjo, K.Z., **Enescu, B.**, Shcherbakov, R., Turcotte, D.L., Iwata, T., and Y. Ogata, The decay of aftershock activity for Japanese earthquakes, *J. Geophys. Res.*, 112, B08309, doi: 10.1029/2006JB004754, 2007.
21. Kato, A., and The Research Team of aftershock observations for the 2004 mid-Niigata Prefecture earthquake (88 authors including **B. Enescu**), High-resolution aftershock observations in the source region of the 2004 mid-Niigata Prefecture earthquake, *Earth Planets Space*, 59, 923-928, 2007.
22. **Enescu, B.**, Ito, K., and Z.R. Struzik, Wavelet-based multiscale resolution analysis of real and simulated time series of earthquakes, *Geophys. J. Int.*, 164(1), 63-74, doi: 10.1111/j.1365-246X.2005.02810.x, 2006.
23. Iio, Y., Katao, H., Ueno, T., **Enescu, B.**, Hirano, N., Okada, T., Uchida, N., Matsumoto, S., Matsushima, T., Uehira, K., and H. Shimizu, Spatial distribution of static stress drops for aftershocks of the 2005 West Off Fukuoka Prefecture earthquake, *Earth Planets Space*, 58(12), 1611-1615, 2006.
24. Shimizu, H., Takahashi, H., Okada, T., Kanazawa, T., Iio, Y., Miyamachi, H., Matsushima, T., Ichiyangi, M., Uchida, N., Iwasaki, T., Katao, H., Goto, K., Matsumoto, S., Hirata, N., Nakao, S., Uehira, K., Shinohara, M., Yakiwara, H., Kame, N., Urabe, T., Matsuwo, N., Yamada, T., Watanabe, A., Nakahigashi, K., **Enescu, B.**, Uchida, K., Hashimoto, S., Hirano, S., Yagi, T., Kohno, Y., Ueno, T., Saito, M., and M. Hori, Aftershock seismicity and fault structure of the 2005 West Off Fukuoka Prefecture Earthquake ( $M_{JMA}$ 7.0) derived from urgent joint observations, *Earth Planets Space*, 58(12), 1599-1604, 2006.
25. **Enescu, B.**, Mori, J., and S. Ohmi, Double-difference relocations of the 2004 off the Kii Peninsula earthquakes, *Earth Planets Space*, 57(4), 357-362, 2005.
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27. Shibutani, T., Iio, Y., Matsumoto, S., Katao, H., Matsushima, T., Ohmi, S., Takeuchi, F., Uehira, K., Nishigami, K., **Enescu, B.**, Hirose, I., Kano, Y., Kohno, Y., Korenaga, M., Mamada, Y., Miyazawa, M., Tatsumi, K., Ueno, T., Wada, H., and Y. Yukutake, Aftershock distribution of the 2004 Mid Niigata Prefecture Earthquake derived from a combined analysis of temporary online observations and permanent observations, *Earth Planets Space*, 57(6), 545-549, 2005.
28. **Enescu, B.**, Ito, K., Radulian, M., Popescu, E., and O. Bazacliu, Multifractal and chaotic analysis of Vrancea (Romania) intermediate-depth earthquakes -Investigation of the temporal distribution of events-, *Pure Appl. Geophys., Birkhauser Publishing Ltd, Basel*, 162(2), 249-271, doi:10.1007/s00024-004-2599-x, 2005.
29. **Enescu, B.** and K. Ito, Spatial analysis of the frequency-magnitude distribution and decay rate of aftershock activity of the 2000 Western Tottori earthquake, *Earth Planets Space*, 54(8), 847-859, 2002.
30. **Enescu, B.**, and K. Ito, Some premonitory phenomena of the 1995 Hyogo-ken Nanbu earthquake: seismicity, b-value and fractal dimension, *Tectonophysics*, 338(3-4), 297-314, doi:10.1016/S0040-1951(01)00085-3, 2001.

31. **Enescu, B.**, Enescu, D., and A.P. Constantin, The use of electromagnetic data for short-term prediction of Vrancea (Romania) earthquakes, *Earth Planets Space*, 51(10), 1099-1117, 1999.
32. Enescu, D., and **B. Enescu**, Possible cause-effect relationships between Vrancea (Romania) earthquakes and some global geophysical phenomena, *Natural Hazards, Kluwer Academic Publishers*, 19(2-3), 233-245, doi:10.1023/A:1008095708316, 1999.

- *Peer-reviewed papers (other Journals)*

33. Iio, Y., Matsumoto, S., Matsushima, T., Uehira, K., Katao, H., Ohmi, S., Shibutani, T., Takeuchi, F., Nishigami, K., **Enescu, B.**, Hirose, I., Kano, Y., Mamada, Y., Miyazawa, M., Tatsumi, K., and H. Wada, Generating process of the 2004 Niigata-Chuetsu earthquake - Results from the Joint online aftershock observation, *Zisin (Journal of Seismological Society of Japan)*, Ser 2, 58 (4), 463-475, 2006.
34. Iwasaki, T. and the “Research Group for Explosion Seismology”, Seismic Refraction/Wide-angle Reflection Experiment across the Foreland Area of the Hidaka Collision Zone, Hokkaido, Japan. (Ohtaki-Biratori Profile), *Bull. Earthq. Res. Inst., Univ. Tokyo*, 77, 173-198, 2002.
35. Moldovan, I.A., **Enescu, B.**, and C. Ionescu, Predicting peak ground horizontal acceleration for Vrancea large earthquakes using attenuation relations for moderate shocks, *Rom. Journ. Phys.*, 45(9-10), 785-800, 2000.
36. **Enescu, B.**, and D. Enescu, The Vrancea (Romania) earthquakes of May 31, 1990 (MGR = 6.1). Isoacceleration maps of ground movement and macroseismic maps, *Rom. Journ. Phys.*, 44(5-6), 645-653, 1999.
37. Enescu, D., and **B. Enescu**, Seismotectonic model regarding the genesis and the occurrence of Vrancea (Romania) earthquakes, *Romanian Reports in Physics*, 50(1-2), 97-122, 1998.
38. Moldovan, I.A., **Enescu, B.** and A. Pantea, Input for seismic hazard assessment using Vrancea seismic source region, *Rom. Journ. Phys.*, 43(7-8), 619-636, 1998.

- *Papers in internal Annuals, Bulletins, Reports (non peer-reviewed):*

39. Iio, Y., Matsumoto, S., Katao, H., Matsushima, T., Ohmi, S., Shibutani, T., Takeuchi, F., Uehira, K., Nishigami, K., **Enescu, B.**, Hirose, I., Kano, Y., Kono, H., Korenaga, M., Mamada, Y., Miyazawa, M., Tatsumi, K., Ueno, T., Wada, H. and Y. Yukutake, The occurrence process of the 2004 Mid Niigata-Prefecture earthquake, *Ann. Disas. Prev. Res. Inst., Kyoto Univ.*, 48B, 165-170, 2005.
40. Nakao S., Katao H., Mori J.J., Shibutani T., Watanabe K., Ito K. and **B. Enescu**, The Middle-Western Tottori Earthquake (Sep16, 2002; Mj5.3) and the seismicity in the San-in Area, *Ann. Disas. Prev. Res. Inst., Kyoto Univ.*, 46B, 701-708, 2003 (in Japanese).
41. **Enescu B.** and K. Ito, Values of b and p: their Variations and Relation to Physical Processes for Earthquakes in Japan, *Ann. Disas. Prev. Res. Inst., Kyoto Univ.*, 46B, 709-719, 2003.
42. Ito K. and **B. Enescu**, The 2000 Tottori-Ken Seibu Earthquake and the heterogeneous structure, *Chikyu Monthly*, 38, 167-174, 2002 (in Japanese).
43. Ito K. and **B. Enescu**, Precursory Evidence for the 1995 Hyogoken-Nanbu Earthquake, from Seismic Observations, in *The occurrence process of the 1995 Hyogo-Ken Nanbu (Kobe) earthquake from micro-earthquake observation, Rep. For Tokyo Memorial Foundation for the Promotion of Earthquake Prediction Res.*, pp. 3-26, 2001.
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- *Presentations at scientific meetings (recent and representative ones):*

45. **Enescu, B.**, Takeda, T., Obara, K., Asano Y., and I. Koulakov, Preliminary results on the Velocity Structure in the Niigata Region, from Regional-scale, Dense Earthquake Observations, *Japan Geoscience Union Meeting, Makuhari Messe, International Conference Hall, Japan*, SCG088-P16, 2010.
46. **Enescu, B.**, Obara, K., Ohmi, S., Takeda, T., Asano, K., Saito, T., Ueno T., and K. Shiomi, Temporal Changes of the Waveform Auto-correlation Properties Associated with the 2009 Izu Earthquake Swarm, *Japan Geoscience Union Meeting, Makuhari Messe, International Conference Hall, Japan*, SSS018-P12, 2010.
47. Takeda, T., Sato, H., Obara, K., and **B. Enescu**, Relationship between fault-segmentation boundaries and seismicity in the High-Strain-Rate Zone of Japan, *Japan Geoscience Union Meeting, Makuhari Messe, International Conference Hall, Japan*, SCG088-22, 2010.
48. Ueno, T., Saito, T., Obara, K., Shiomi, K., **Enescu, B.**, and H. Kimura, Crustal Changes Preceding Earthquake Swarm Activity in the Eastern Izu Peninsula, Observed by Seismic Noise Correlations, *Japan Geoscience Union Meeting, Makuhari Messe, International Conference Hall, Japan*, SSS013-P09, 2010.
49. Toda, S., **Enescu, B.** and R. Stein, CoulombExpress: Near-realtime forecasts of earthquake-induced stress transfer and seismicity for prospective testing, *Japan Geoscience Union Meeting, Makuhari Messe, International Conference Hall, Japan*, SSS022-05, 2010.
50. **B. Enescu**, T. Takeda, K. Obara, S. Sekine, W. Suzuki, Y. Asano, Y. Yukutake, The 2008 Iwate-Miyagi Inland Earthquake (Mw6.9): The Distribution and Focal Mechanism Solution of Aftershocks in relation to the Crustal Structure, *American Geophysical Union (AGU) Fall Meeting*, S44B-06, 2009.
51. Toda, S., **Enescu, B.** and Stein, R., Coulomb Express: Automated near-real time forecasts of earthquake-induced stress transfer and expected seismicity rate changes, *AGU Fall Meeting*, S22C-02 (INVITED), 2009.
52. Peng, Z., **Enescu, B.**, P. Zhao, and S. Hainzl, Detecting early aftershocks in California and Japan based on a matched filter technique, *AGU Fall Meeting*, S54A-06, 2009.
53. Takeda, T., Sato, H. and Obara, K., **B. Enescu**, NW-SE Trending Fault-Segmentation Boundaries in the High-Strain-Rate Zone of Japan, *AGU, Fall Meeting*, T53B-1578, 2009.
54. Cocco, M., Hainzl, S. and Woessner, J., **Enescu, B.**, Catalli, F., A. Lombardi, Sensitivity study of forecasted aftershock seismicity based on Coulomb stress calculation and rate- and state-dependent frictional response, *AGU, Fall Meeting*, S22C-05 (INVITED), 2009.
55. **Enescu, B.**, Asano, Y., Matsubara, M., Shiomi, K., Suzuki, W., Kimura, T., Miyoshi, T., Obara, K. and S. Aoi, Influence of the Recent Moderate Suruga-Bay Earthquake on the Assumed, Major Tokai Event: A Coulomb Stress Change Assessment, *The Seismological Society of Japan, Fall Meeting*, book of abstracts, A11-03, 2009.
56. **Enescu, B.**, Takeda, T., Asano, Y., Suzuki, W., Sekine, S. and Y. Yukutake, The 2008 Iwate-Miyagi Inland Earthquake: Aftershock Distribution, Crustal Structure and Focal Mechanism Solutions, *The Seismological Society of Japan, Fall Meeting*, book of abstracts, P2-41, 2009.
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59. **Enescu, B.**, Takeda, T., Yukutake, Y., Obara, K., Asano, Y., and “The Matsuzawa Toru Group for the aftershock observations of the Iwate-Miyagi Nairiku Earthquake in 2008”, How deep are the aftershocks of the 2008 Iwate-Miyagi Nairiku sequence?, *Japan Geoscience Union Meeting, Makuhari Messe, International Conference Hall, Japan*, J245-P006, 2009.
60. **Enescu, B.**, Analysis of early aftershocks observed on high-sensitivity continuous waveforms in Japan (INVITED), *6<sup>th</sup> International Workshop on Statistical Seismology, Lake Tahoe, California, United States*, April 12-16, 2009.
61. **Enescu, B.**, Obara, K., Takeda, T., Asano, Y., and M. Matsubara, National Project for Intense Observations and Research in the High Strain Rate Zone of Japan, *Eos Trans. AGU*, 89(53), Fall

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62. **Enescu, B.**, Hainzl, S., Wang, R., Roth, F., Toda, S., Wang, L., Woessner, J., and S. Wiemer, Aftershock Forecasting based on Coulomb Stress Modeling, *Japan Geoscience Union Meeting, Makuhari Messe, International Conference Hall, Japan*, 2008.
63. **Enescu, B.**, Mori, J., Miyazawa, M., and Y. Kano, C-values associated with recent moderate earthquakes in Japan, *Geophysical Research Abstracts*, 10, EGU2008-A-04845, EGU General Assembly, 2008.
64. Hainzl, S., **Enescu, B.**, Wang, R., and F. Roth, Aftershock modeling based on uncertain Coulomb stress calculations and rate-state frictional response, *Geophysical Research Abstracts*, 10, EGU2008-A-09344, EGU General Assembly, 2008.
65. Wang, L.F., Wang, R., Frank, R., and **B. Enescu**, Estimation of viscosities based on post-seismic deformation of the 1999 İzmit-Düzce earthquakes, *Geophysical Research Abstracts*, 10, EGU2008-A-06296, EGU General Assembly, 2008.
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67. **Enescu, B.**, Hainzl, S. and Y. Ben-Zion, Seismicity Patterns in Southern California and Their Physical Origin, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract S11C-0707, 2007.
68. Mori, J., Kano, Y. and **B. Enescu**, Comparison of Early Aftershocks for the 2004 Mid-Niigata and 2007 Noto Hanto Earthquakes in Japan, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract S52B-04, 2007.
69. **Enescu, B.** and J. Mori, Determining the location of the fault plane for the Nankai subduction zone, *Japan Geoscience Union Meeting, Makuhari Messe, International Conference Hall, Japan*, S144- P012, 2007.
70. **Enescu, B.**, Mori, J. and M. Miyazawa, Quantifying early aftershock activity of the 2004 Mid Niigata Prefecture earthquake (Mw6.6), *EOS Trans. AGU*, 87(52), Fall Meeting Suppl., Abstract S22B-02, 2006.
71. Ito, K., Ueno, T., Wada, H., Ohmi, S. and **B. Enescu**, Seismic activity and underground structure of the Atotsugawa fault area in the Niigata Kobe Tectonic Zone, *The Seismological Society of Japan*, Fall Meeting 2006, book of abstracts, P161, 2006.
72. **Enescu, B.**, Ito, K., Wada, H., Ohmi, S., and T. Shibutani, Detailed image of seismic activity along the Atotsugawa fault, by precise hypocenter relocation, *The Seismological Society of Japan*, Fall Meeting 2005, book of abstracts, P235, 2005.
73. **Enescu, B.**, Mori, J., Shibutani, T., Ito, K., Iio, Y., Miyazawa, M., Matsushima, T., and K. Uehira, Detailed analysis of the Early Aftershock Activity of the 2004 Mid Niigata Prefecture Earthquake (Mw6.6), *The Seismological Society of Japan*, Fall Meeting 2005, book of abstracts, C045, 2005.
74. **Enescu, B.**, Mori, J., Shibutani, T., Iio, Y., Matsushima, T., and K. Uehira, High-resolution Image of Aftershock Activity of the 2004 Niigata Chuetsu Earthquake (M6.8), *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., S51A-02, 2005.
75. **Enescu, B.**, and J. Mori, Relocations and 3-D Velocity Structure for Aftershocks of the 2000 W. Tottori (Japan) Earthquake and 2001 Gujarat (India) Earthquake, Using Waveform Cross-correlations, *Eos Trans. AGU*, 85(47), Fall Meeting Suppl., Abstract S54A-05, 2004.
76. Enescu, D., Moldovan, I. and **B. Enescu**, New results obtained through the electromagnetic method for short-term prediction of Vrancea (Romania) earthquakes, *The 23<sup>rd</sup> General Assembly of the International Union of Geodesy and Geophysics (IUGG)*, Sapporo, Japan, book of abstracts, JSS01/30A/D-029, Page A.149, 2003.
77. **Enescu, B.** and K. Ito, Variations of b- and p- Value Seismicity Parameters and Their Relation to Physical Processes for Earthquakes in Japan, *EOS Trans. American Geophysical Union, Fall Meeting 2002 (San Francisco)*, 83(47), Abstract S52B-1096, 2002.