

D. Q. Lu's Curriculum Vitae: List of Publications and Presentations

➤ Journal Articles & Letters (Corresponding author*)

54. M. M. Bhatti & D. Q. Lu*, "Head-on collision between two hydroelastic solitary waves with Plotnikov–Toland's plate model," *Theoretical and Applied Mechanics Letters*, Vol. 8, No. 6, pp. 384–392, Elsevier & Chinese Society of Theoretical and Applied Mechanics, Nov. 2018.
[<https://doi.org/10.1016/j.taml.2018.06.009>](Open Access)
[<http://taml.cstam.org.cn/article/doi/10.1016/j.taml.2018.06.009?pageType=en>]
55. M. M. Bhatti & D. Q. Lu*, "Head-on collision between two hydroelastic solitary waves with Plotnikov–Toland's plate model," *Chinese Journal of Theoretical and Applied Mechanics*, Vol. 50, No. 6, pp. 1406–1417 (in Chinese) (a special issue in memory of Prof. Yung-Huai Kuo), Chinese Society of Theoretical and Applied Mechanics, Nov. 2018.
53. Q. Lin, Q. R. Meng & D. Q. Lu*, "Waves propagating over a two-layer porous barrier on a seabed," *Journal of Hydrodynamics*, Vol. 30, No. 3, pp. 453–462, Springer, Jun. 2018.
[<https://doi.org/10.1007/s42241-018-0041-6>]
52. M. M. Bhatti & D. Q. Lu*, "Head-on collision between two hydroelastic solitary waves in shallow water," *Qualitative Theory of Dynamical Systems*, Vol. 17, No. 1, pp. 103–122, Springer International Publishing AG, Apr. 2018.
[<https://doi.org/10.1007/s12346-017-0263-y>]
51. Q. R. Meng & D. Q. Lu*, "Scattering of flexural–gravity waves by a group of elastic plates floating on a stratified fluid," *European Journal of Mechanics B/Fluids*, Vol. 67, pp. 329–340, Elsevier, Jan. – Feb. 2018.
[<https://doi.org/10.1016/j.euromechflu.2017.09.010>]
50. J. S. Li & D. Q. Lu*, "Flexural–gravity wave resistances due to a surface-moving line source," *Journal of Hydrodynamics*, Vol. 29, No. 6, pp. 1000–1009, Elsevier, Dec. 2017.
[[https://doi.org/10.1016/S1001-6058\(16\)60814-4](https://doi.org/10.1016/S1001-6058(16)60814-4)]
49. Q. R. Meng & D. Q. Lu*, "Hydroelastic interaction between water waves and a thin elastic plate floating on a three-layer fluid," *Applied Mathematics and Mechanics - English Edition*, Vol. 38, No. 4, pp. 567–584, Shanghai University & Springer-Verlag Berlin Heidelberg, Apr. 2017.
[<https://doi.org/10.1007/s10483-017-2185-6>]
[<http://www.amm.shu.edu.cn/EN/abstract/abstract15051.shtml>](Open Access)
48. Q. R. Meng & D. Q. Lu*, "Wave-induced hydrodynamic responses of a rigid body connected with elastic plates floating on a two-layer fluid," *Journal of Fluids and Structures*, Vol. 68, pp. 295–309, Elsevier, Jan. 2017.
[<https://doi.org/10.1016/j.jfluidstructs.2016.10.014>]
47. Q. R. Meng & D. Q. Lu*, "Scattering of gravity waves by a porous rectangular barrier on a seabed," *Journal of Hydrodynamics*, Vol. 28, No. 3, pp. 519–522, Elsevier, Jun. 2016.
[[https://doi.org/10.1016/S1001-6058\(16\)60656-X](https://doi.org/10.1016/S1001-6058(16)60656-X)]
46. P. Wang & D. Q. Lu*, "Nonlinear hydroelastic waves traveling in a thin elastic plate floating on a two-layer fluid," *Applied Mathematics and Computation*, Vol. 274, pp. 700–710, Elsevier, Feb. 2016.
[<https://doi.org/10.1016/j.amc.2015.10.075>]
45. Q. R. Meng & D. Q. Lu*, "Wave-induced hydrodynamic responses of an immersed rigid body connected with elastic plates in a two-layer fluid," *Procedia Engineering*, Vol. 126, pp. 270–274, Elsevier, Dec. 2015.

- [<https://doi.org/10.1016/j.proeng.2015.11.240>]
[*Proceedings of the 7th International Conference on Fluid Mechanics*, Qingdao, China, 24–27 May 2015]
44. P. Wang & D. Q. Lu*, “Homotopy-based analytical approximation to nonlinear short-crested waves in a fluid of finite depth,” *Journal of Hydrodynamics*, Vol. 27, No. 3, pp. 321–331, Elsevier, Jun. 2015.
[[https://doi.org/10.1016/S1001-6058\(15\)60489-9](https://doi.org/10.1016/S1001-6058(15)60489-9)]
43. D. Q. Lu* & R. W. Yeung, “Hydroelastic waves due to concentrated loads in a current,” *International Journal of Offshore and Polar Engineering*, Vol. 25, No. 1, pp. 8–12, The International Society of Offshore and Polar Engineers, Mar. 2015.
[<http://legacy.isopec.org/publications/journals/journalMarch15.htm>]
[Selected from the *Proceedings of the 11th Pacific/Asia Offshore Mechanics Symposium*, Shanghai, 2014]
42. Q. Lin, D. Q. Lu* & R. W. Yeung, “Hydroelastic response of a circular plate in waves on a two-layer fluid of finite depth,” *China Ocean Engineering*, Vol. 28, No. 5, pp. 671–686, Chinese Ocean Engineering Society & Springer-Verlag Berlin Heidelberg, Oct. 2014.
[<https://doi.org/10.1007/s13344-014-0053-0>]
41. D. Q. Lu, “Effect of compressive stress on the dispersion relation of the flexural–gravity waves in a two-layer fluid with a uniform current,” *Journal of Hydrodynamics*, Vol. 26, No. 2, pp. 339–341, Elsevier, Apr. 2014.
[[https://doi.org/10.1016/S1001-6058\(14\)60037-8](https://doi.org/10.1016/S1001-6058(14)60037-8)]
40. Q. Lin & D. Q. Lu*, “Water wave diffraction by a bottom-mounted circular cylinder clamped to an elastic plate floating on a two-layer fluid,” *European Journal of Mechanics B/Fluids*, Vol. 44, pp. 10–21, Elsevier, Mar. – Apr. 2014.
[<https://doi.org/10.1016/j.euromechflu.2013.11.004>]
39. P. Wang & D. Q. Lu*, “Analytic approximation to nonlinear hydroelastic waves traveling in a thin elastic plate floating on a fluid,” *SCIENCE CHINA Physics, Mechanics & Astronomy*, Vol. 56, No. 11, pp. 2170–2177, Science China Press & Springer-Verlag Berlin Heidelberg, Nov. 2013.
[<https://doi.org/10.1007/s11433-013-5324-x>]
38. Q. Lin & D. Q. Lu*, “Hydroelastic interaction between obliquely incident waves and a semi-infinite elastic plate on a two-layer fluid,” *Applied Ocean Research*, Vol. 43, pp. 71–79, Elsevier, Oct. 2013.
[<https://doi.org/10.1016/j.apor.2013.07.009>]
37. H. Zhang & D. Q. Lu*, “Unsteady hydroelastic wave resistances and deflections due to a two-dimensional load moving on a floating plate,” *Chinese Journal of Hydrodynamics*, Vol. 28, No. 5, pp. 615–625 (in Chinese), Shanghai Publishing House for Journal of Hydrodynamics, Sep. 2013.
36. D. Q. Lu* & C. Z. Sun, “Transient flexural– and capillary–gravity waves due to disturbances in two-layer density-stratified fluid,” *Journal of Hydrodynamics*, Vol. 25, No. 3, pp. 339–347, Elsevier, Jun. 2013.
[[https://doi.org/10.1016/S1001-6058\(11\)60372-8](https://doi.org/10.1016/S1001-6058(11)60372-8)]
35. D. Q. Lu* & H. Zhang, “Flexural–gravity wave resistances due to a surface-moving line source on a fluid covered by a thin elastic plate,” *Theoretical & Applied Mechanics Letters*, Vol. 3, No. 2, Art. No. 022002, Chinese Society of Theoretical and Applied Mechanics & Elsevier, Mar. 2013.
[<https://doi.org/10.1063/2.1302202>](Open Access)
[<http://tam.cstam.org.cn/EN/Y2013/V3/I2/14>](Open Access)

34. F. Xu & D. Q. Lu*, "Hydroelastic interaction between water waves and a thin elastic plate of arbitrary geometry," *SCIENCE CHINA Physics, Mechanics & Astronomy*, Vol. 54, No. 1, pp. 59–66, Science China Press & Springer-Verlag Berlin Heidelberg, Jan. 2011.
[<https://doi.org/10.1007/s11433-010-4199-3>]
33. D. Q. Lu* & S. Q. Dai, "Surface and interfacial gravity waves due to a disturbance steadily moving in a two-layer inviscid fluid," *Journal of Hydrodynamics*, Vol. 22, No. 5, Suppl. 1, pp. 40–44, Elsevier, Oct. 2010.
[[https://doi.org/10.1016/S1001-6058\(09\)60166-9](https://doi.org/10.1016/S1001-6058(09)60166-9)]
[*Proceedings of the 9th International Conference on Hydrodynamics* (Edited by Y. S. Wu, S. Q. Dai, H. Liu, et al., China Ocean Press, ISBN 978-7-5027-7834-7), pp. 40–44, Shanghai, China, 11–15 Oct. 2010.]
32. F. Xu & D. Q. Lu*, "Wave scattering by a thin elastic plate floating on a two-layer fluid," *International Journal of Engineering Science*, Vol. 48, No. 9, pp. 809–819, Elsevier, Sep. 2010.
[<https://doi.org/10.1016/j.ijengsci.2010.04.007>]
31. F. Xu & D. Q. Lu*, "An optimization of eigenfunction expansion method for the interaction of water waves with an elastic plate," *Journal of Hydrodynamics*, Vol. 21, No. 4, pp. 526–530, Elsevier, Aug. 2009.
[[https://doi.org/10.1016/S1001-6058\(08\)60180-8](https://doi.org/10.1016/S1001-6058(08)60180-8)]
30. D. Q. Lu, "Generation of free-surface gravity waves by an unsteady Stokeslet," *Archive of Applied Mechanics*, Vol. 79, No. 4, pp. 311–322, Springer-Verlag, Apr. 2009.
[<https://doi.org/10.1007/s00419-008-0233-6>]
29. D. Q. Lu* & T. T. Chen, "Surface and interfacial gravity waves induced by an impulsive disturbance in a two-layer inviscid fluid," *Journal of Hydrodynamics*, Vol. 21, No. 1, pp. 26–33, Elsevier, Feb. 2009.
[[https://doi.org/10.1016/S1001-6058\(08\)60115-8](https://doi.org/10.1016/S1001-6058(08)60115-8)]
28. D. Q. Lu* & S. Q. Dai, "Flexural– and capillary–gravity waves due to fundamental singularities in an inviscid fluid of finite depth," *International Journal of Engineering Science*, Vol. 46, No. 11, pp. 1183–1193, Elsevier, Nov. 2008.
[<https://doi.org/10.1016/j.ijengsci.2008.06.004>]
27. D. Q. Lu* & C. O. Ng, "Interfacial capillary–gravity waves due to a fundamental singularity in a system of two semi-infinite fluids," *Journal of Engineering Mathematics*, Vol. 62, No. 3, pp. 233–245, Springer Science+Business Media, Nov. 2008.
[<https://doi.org/10.1007/s10665-007-9199-6>]
26. G. Wei*, X. B. Su, D. Q. Lu, Y. X. You & S. Q. Dai, "Flat solitary waves due to a submerged body moving in a stratified fluid," *Chinese Physics Letters*, Vol. 25, No. 6, pp. 2128–2131, Chinese Physical Society & IOP Publishing, Jun. 2008.
[<https://doi.org/10.1088/0256-307X/25/6/056>]
25. D. Q. Lu* & S. Q. Dai, "Generation of unsteady waves by concentrated disturbances in an inviscid fluid with an inertial surface," *Acta Mechanica Sinica*, Vol. 24, No. 3, pp. 267–275, Chinese Society of Theoretical and Applied Mechanics & Springer-Verlag, Jun. 2008.
[<https://doi.org/10.1007/s10409-008-0155-0>]
24. D. Q. Lu*, J. C. Le & S. Q. Dai, "Flexural–gravity waves due to transient disturbances in an inviscid fluid of finite depth," *Journal of Hydrodynamics*, Vol. 20, No. 2, pp. 131–136, Elsevier, Apr. 2008.
[[https://doi.org/10.1016/S1001-6058\(08\)60038-4](https://doi.org/10.1016/S1001-6058(08)60038-4)]
23. D. Q. Lu* & X. B. Chen, "Unsteady waves due to an impulsive Oseenlet beneath the capillary surface of a viscous fluid," *Journal of Hydrodynamics*, Vol. 20, No. 1, pp. 23–29, Elsevier, Feb. 2008.

- [[https://doi.org/10.1016/S1001-6058\(08\)60023-2](https://doi.org/10.1016/S1001-6058(08)60023-2)]
22. Y. C. Bai*, D. Xu & D. Q. Lu, "Numerical simulation of two-dimensional dam-break flows in curved channels," *Journal of Hydrodynamics*, Ser. B, Vol. 19, No. 6, pp. 726–735, Elsevier, Dec. 2007.
[[https://doi.org/10.1016/S1001-6058\(08\)60010-4](https://doi.org/10.1016/S1001-6058(08)60010-4)]
 21. W. H. Wang*, A. Chang & D. Q. Lu, "Unicyclic graphs possessing Kekulé structures with minimal energy," *Journal of Mathematical Chemistry*, Vol. 42, No. 3, pp. 311–320, Springer Science+Business Media, Oct. 2007.
[<https://doi.org/10.1007/s10910-006-9096-7>]
 20. D. Q. Lu* & A. T. Chwang, "Interfacial viscous ship waves near the cusp lines," *Wave Motion*, Vol. 44, Nos. 7–8, pp. 563–572, Elsevier, Aug. 2007.
[<https://doi.org/10.1016/j.wavemoti.2007.03.002>]
 19. Y. X. You*, J. Xu, G. Wei & D. Q. Lu, "Hydrodynamic characteristics of a vertical thin barrier in a continuously stratified fluid," *Chinese Journal of Theoretical and Applied Mechanics*, Vol. 39, No. 3, pp. 297–310 (in Chinese), Chinese Society of Theoretical and Applied Mechanics, May 2007.
 18. D. Q. Lu* & S. Q. Dai, "Generation of transient waves by impulsive disturbances in an inviscid fluid with an ice-cover," *Archive of Applied Mechanics*, Vol. 76, Nos. 1–2, pp. 49–63, Springer-Verlag, Oct. 2006.
[<https://doi.org/10.1007/s00419-006-0004-1>]
 17. X. B. Chen*, W. Y. Duan & D. Q. Lu, "Gravity waves with effect of surface tension and fluid viscosity," *Journal of Hydrodynamics*, Vol. 18, No. 3, Suppl., pp. 171–176, Elsevier, Jul. 2006.
[[https://doi.org/10.1016/S1001-6058\(06\)60049-8](https://doi.org/10.1016/S1001-6058(06)60049-8)]
[*Proceedings of the Conference of Global Chinese Scholars on Hydrodynamics* (Edited by D. X. Zhu, L. D. Zhou & X. C. Yang, Shanghai University Press, ISBN 7-81058-978-4), pp. 171–176, Shanghai, China, Jul. 11–14, 2006.]
 16. D. Q. Lu*, J. C. Le & S. Q. Dai, "Unsteady waves due to oscillating disturbances in an ice-covered fluid," *Journal of Hydrodynamics*, Vol. 18, No. 3, Suppl., pp. 177–180, Elsevier, Jul. 2006.
[[https://doi.org/10.1016/S1001-6058\(06\)60050-4](https://doi.org/10.1016/S1001-6058(06)60050-4)]
[*Proceedings of the Conference of Global Chinese Scholars on Hydrodynamics* (Edited by D. X. Zhu, L. D. Zhou & X. C. Yang, Shanghai University Press, ISBN 7-81058-978-4), pp. 177–180, Shanghai, China, 11–14 Jul. 2006.]
 15. W. H. Wang*, A. Chang, L. Z. Zhang & D. Q. Lu, "Unicyclic Hückel molecular graphs with minimal energy," *Journal of Mathematical Chemistry*, Vol. 39, No. 1, pp. 231–241, Springer Science+Business Media, Jan. 2006.
[<https://doi.org/10.1007/s10910-005-9022-4>]
 14. D. Q. Lu*, G. Wei & Y. X. You, "Unsteady interfacial waves due to singularities in two semi-infinite inviscid fluids," *Journal of Hydrodynamics*, Ser. B, Vol. 17, No. 6, pp. 730–736, China Ocean Press, Dec. 2005.
 13. D. Q. Lu & A. T. Chwang*, "Interfacial waves due to a singularity in a system of two semi-infinite fluids," *Physics of Fluids*, Vol. 17, No. 10, Art. No. 102107, American Institute of Physics, Oct. 2005.
[<https://doi.org/10.1063/1.2120447>]
 12. D. Q. Lu & A. T. Chwang*, "Unsteady free-surface waves generated by a submerged body moving in a viscous fluid," *Physical Review E*, Vol. 71, No. 6, Art. No. 066303, The American Physical Society, Jun. 2005.
[<https://doi.org/10.1103/PhysRevE.71.066303>]

11. Y. C. Bai*, H. J. Xu & D. Q. Lu, "Nonlinear evolution of the wave on the small-amplitude uneven sloping bed," *Applied Mathematics and Mechanics - English Edition*, Vol. 26, No. 5, pp. 654–661, Shanghai University Press, May 2005.
[<https://doi.org/10.1007/BF02466340>]
[<http://www.amm.shu.edu.cn/EN/abstract/abstract12837.shtml>](Open Access)
10. G. Wei*, D. Q. Lu & S. Q. Dai, "Waves induced by a submerged moving dipole in a two-layer fluid of finite depth," *Acta Mechanica Sinica*, Vol. 21, No. 1, pp. 24–31, Chinese Society of Theoretical and Applied Mechanics & Springer-Verlag, Feb. 2005.
[<https://doi.org/10.1007/s10409-004-0003-9>]
9. D. Q. Lu, "A note on the complex dispersion relation for steady viscous ship waves," *Journal of Hydrodynamics*, Ser. B, Vol. 17, No. 1, pp. 22–26, China Ocean Press, Feb. 2005.
8. D. Q. Lu* & A. T. Chwang, "Unsteady free-surface waves due to a submerged body in two-dimensional Oseen flows," *Journal of Ship Mechanics*, Vol. 8, No. 3, pp. 8–18, China Ship Scientific Research Center & The Chinese Society of Naval Architects and Marine Engineers, Jun. 2004.
7. D. Q. Lu, "Interaction of viscous wakes with a free surface," *Applied Mathematics and Mechanics - English Edition*, Vol. 25, No. 6, pp. 647–655, Shanghai University Press, Jun. 2004.
[<https://doi.org/10.1007/BF02438207>]
[<http://www.amm.shu.edu.cn/EN/abstract/abstract9456.shtml>](Open Access)
6. D. Q. Lu, "Unsteady free-surface waves generated by bodies in a viscous fluid," *Journal of Hydrodynamics*, Ser. B, Vol. 16, No. 2, p. 240, China Ocean Press, Apr. 2004.
5. D. Q. Lu, "The effect of viscosity on free-surface waves in Oseen flows," *Journal of Shanghai University (English Edition)*, Vol. 8, No. 1, pp. 8–12, Shanghai University Press & Springer, Mar. 2004.
[<https://doi.org/10.1007/s11741-004-0003-9>]
4. D. Q. Lu, "Free-surface waves and far wakes generated by a floating body in a viscous fluid," *Journal of Hydrodynamics*, Ser. B, Vol. 15, No. 4, pp. 10–16, China Ocean Press, Aug. 2003.
3. D. Q. Lu, S. Q. Dai* & B. S. Zhang, "Hamiltonian formulation of nonlinear water waves in a two-fluid system," *Applied Mathematics and Mechanics - English Edition*, Vol. 20, No. 4, pp. 343–349, Shanghai University Press, Apr. 1999.
[<https://doi.org/10.1007/BF02458559>]
[<http://www.amm.shu.edu.cn/EN/abstract/abstract10337.shtml>](Open Access)
2. B. S. Zhang*, D. Q. Lu, S. Q. Dai & Y. L. Cheng, "Research progress on the theories and applications of Hamiltonian system in nonlinear water waves," *Advances in Mechanics*, Vol. 28, No. 4, pp. 521–531 (in Chinese), Chinese Society of Theoretical and Applied Mechanics, Dec. 1998.
1. B. S. Zhang*, D. Q. Lu & S. Q. Dai, "Infinite-dimensional Lie algebra with a new Poisson bracket," *Acta Mechanica Sinica*, Vol. 30, No. 3, pp. 307–313 (in Chinese), Chinese Society of Theoretical and Applied Mechanics, May 1998.

➤ **Conference Papers in Proceedings with Presentations**
(Corresponding author*, Presenting author#)

40. M. M. Bhatti & D. Q. Lu^{#*}, "Head-on collision between two hydroelastic solitary waves under a thin ice sheet floating on shallow water," *Proceedings of the 33rd International*

- Workshop on Water Waves and Floating Bodies* (Edited by Y.-M. Scolan, ENSTA Bretagne, ISBN 978-2-9561523-0-9), pp. 9–12, Guidel-Plages, France, 4–7 Apr. 2018.
[http://www.iwwwfb.org/Abstracts/iwwwfb33/iwwwfb33_03.pdf]
39. Q. R. Meng & D. Q. Lu^{#*}, “Scattering of flexural–gravity waves by a group of elastic plates floating on the stratified ocean with multiple-layer fluids,” *Proceedings of the 32nd International Workshop on Water Waves and Floating Bodies* (Edited by B. Teng & D. Z. Ning), pp. 141–144, Dalian, China, 23–26 Apr. 2017.
[http://www.iwwwfb.org/Abstracts/iwwwfb32/iwwwfb32_36.pdf]
 38. M. M. Bhatti[#] & D. Q. Lu^{*}, “Head-on collision between two hydroelastic solitary waves in a two-layer fluid,” *Proceedings of the 2nd Conference of Global Chinese Scholars on Hydrodynamics* (Edited by Y. S. Wu, S. Q. Dai & K. Yan, China Ocean Press, ISBN 978-7-5027-9607-5), pp. 151–156, Wuxi, China, 11–14 Nov. 2016.
 37. M. M. Bhatti & D. Q. Lu^{#*}, “Effect of compression on the head-on collision between two hydroelastic solitary waves,” *Proceedings of the 12th International Conference on Hydrodynamics* (Edited by R. H. M. Huijsmans), Egmond aan Zee, The Netherlands, 9 pages, 18–23 Sep. 2016.
[<http://www.ichd2016.nl/onlineproc/proceedings/documents/151.pdf>]
[<http://www.ichd2016.nl/onlineproc/proceedings.htm>]
 36. D. Q. Lu[#], “Hydroelastic waves generated by concentrated loads” (Invited Plenary Lecture), *Proceedings the 27th National Conference on Hydrodynamics* (Edited by Y. S. Wu, H. W. Tang & C. Wang, China Ocean Press, ISBN 978-7-5027-9245-9), pp. 19–23 (in Chinese), Nanjing, 6–8 Nov. 2015.
 35. D. Q. Lu[#], “Hydroelastic response of a floating thin plate due to a surface-piercing load,” *Proceedings of the 30th International Workshop on Water Waves and Floating Bodies* (Edited by R. Porter & J. Zang), pp. 129–132, Bristol, UK, 12–15 Apr. 2015.
[http://www.iwwwfb.org/Abstracts/iwwwfb30/iwwwfb30_33.pdf]
 34. D. Q. Lu^{#*} & R. W. Yeung, “Hydroelastic waves due to concentrated loads in a current,” *Proceedings of the 11th Pacific/Asia Offshore Mechanics Symposium* (Edited by J. S. Chung & H. Liu, The International Society of Offshore and Polar Engineers, ISBN 978-1-880653-90-6, ISSN 1946-004X), pp. 245–249, Shanghai, China, 12–16 Oct. 2014.
[<https://www.onepetro.org/conference-paper/ISOPE-P-14-110>]
 33. D. Q. Lu[#], “Hydroelastic interaction of linear waves with a very large floating structure in a two-layer fluid” (Invited Plenary Lecture), *Proceedings of the 13th National Congress on Hydrodynamics & the 26th National Conference on Hydrodynamics* (Edited by Y. S. Wu, K. Yan & B. J. Sun, China Ocean Press, ISBN 978-7-5027-8931-2), pp. 102–113 (in Chinese), Qingdao, 22–24 Aug. 2014.
 32. Q. R. Meng[#] & D. Q. Lu^{*}, “Interaction between water waves and a semi-infinite elastic plate floating on in a three-layer fluid,” *Proceedings of the 13th National Congress on Hydrodynamics & the 26th National Conference on Hydrodynamics* (Edited by Y. S. Wu, K. Yan & B. J. Sun, China Ocean Press, ISBN 978-7-5027-8931-2), pp. 283–293 (in Chinese), Qingdao, 22–24 Aug. 2014.
 31. D. Q. Lu[#], “Removal of singular behaviors in the classical water wave problems,” *Proceedings of the 14th National Conference on Modern Mathematics and Mechanics*, pp. 163–165 (in Chinese), Zhangjiajie, 17–20 Aug. 2014.
 30. P. Wang[#] & D. Q. Lu^{*}, “Homotopy analysis of nonlinear short-crested waves in water of finite depth,” *Proceedings of the 13th National Conference on Modern Mathematics and Mechanics and the Congress to Mark the 100th Anniversary of Wei-zang Chien's Birth [Disk]*, 8 pages, Shanghai, 6–8 Oct. 2012.

29. D. Q. Lu*[#] & C. Z. Sun, "Waves due to a disturbance in a two-layer fluid covered by an elastic plate," *Proceedings of the 6th International Conference on Asian and Pacific Coasts* (Edited by J. H. W. Lee & C. O. Ng, World Scientific Publishing, ISBN 978-981-4366-47-2), pp. 1930–1937, Hong Kong, China, 14–16 Dec. 2011.
[https://doi.org/10.1142/9789814366489_0231]
28. F. Xu & D. Q. Lu*, "Water wave diffraction around a bottom-mounted pile of arbitrary shape," *Advances in Applied Mathematics and Fluid Mechanics: In Honor of Professor Dai Shiqiang's 70th Birthday and 50th Anniversary in Research Activities* (Edited by D. Q. Lu, X. L. Han & L. Y. Dong, Shanghai University Press, ISBN 978-7-81118-963-6), pp. 251–257, Dec. 2011.
27. D. Q. Lu* & F. Xu, "Interaction of water waves with a thin elastic plate" (Invited Submission), *Proceeding of the Workshop on Offshore Engineering in Memory of Academician Mao-Xiang Gu* (Edited by Q. M. Miao, China Ship Scientific Research Center), pp. 49–56 (in Chinese), Wuxi, 10 Oct. 2011.
26. D. Q. Lu[#], "Unsteady ship waves in the Oseen flow," *Proceedings of the 7th International Workshop on Ship Hydrodynamics* [CD-ROM], pp. 38–42, Shanghai, China, 16–19 Sep. 2011.
25. F. Xu & D. Q. Lu*[#], "Interaction of water waves with a very large floating structure in a two-layer fluid" (Invited Submission), *Proceedings of the 7th National Symposium for Youths on Fluid Mechanics* (Edited by J. F. Wang, S. G. Zhan, Q. G. Meng & N. Zhao), pp. 72–79 (in Chinese), Nanjing, 20–22 May 2011.
24. D. Q. Lu[#], "Analytical solution for the capillary–gravity waves due to an oscillating Stokeslet," *Proceedings of the 25th International Workshop on Water Waves and Floating Bodies* (Edited by W. Y. Duan, X. B. Chen & H. D. Qin), pp. 97–100, Harbin, China, 9–12 May 2010.
[http://www.iwwwfb.org/Abstracts/iwwwfb25/iwwwfb25_26.pdf]
23. D. Q. Lu*[#] & S. Q. Dai, "Gravity waves in an inviscid fluid with an inertial surface," *Proceedings of the 5th International Conference on Asian and Pacific Coasts*, Vol. 3 (Edited by Z. H. Huang & S. K. Tan, World Scientific Publishing, ISBN 978-981-4287-98-2), pp. 139–145, Singapore, 13–16 Oct. 2009.
[https://doi.org/10.1142/9789814287951_0108]
22. D. Q. Lu[#], "Hydroelastic response of a very large floating structure to an instantaneous load" (Invited Submission), *Proceedings of the 6th National Symposium for Youths on Fluid Mechanics* (Edited by X. M. Shao, H. X. Chen, S. G. Zhan & Q. G. Meng), pp. 65–71 (in Chinese), Hangzhou, 10–12 Oct. 2009.
21. T. T. Chen & D. Q. Lu*[#], "Surface and interfacial waves due to point and ring sources in a two-layer fluid," *Proceedings of the 9th National Congress on Hydrodynamics & the 22nd National Conference on Hydrodynamics* (Edited by Y. S. Wu, H. Liu, W. L. Xu, *et al.*, China Ocean Press, ISBN 978-7-5027-7058-7), pp. 211–218 (in Chinese), Chengdu, 17–20 Aug. 2009.
20. X. B. Chen*[#] & D. Q. Lu, "Time-harmonic ship waves with the effect of surface tension and fluid viscosity," *Proceedings of the 24th International Workshop on Water Waves and Floating Bodies* (Edited by P. Plotnikov & A. Korobkin, ISBN 5-85574-279-9), pp. 46–49, Zelenogorsk, Russia, 19–22 Apr. 2009.
[http://www.iwwwfb.org/Abstracts/iwwwfb24/iwwwfb24_13.pdf]
19. D. Q. Lu[#], "Wave motion induced by a disturbance in an incompressible fluid" (Invited Plenary Lecture), *Proceedings of the 21st National Conference on Hydrodynamics & the 8th National Congress on Hydrodynamics & the Cross-Strait Conference on Ship and Ocean*

- Engineering Hydrodynamics* (Edited by D. X. Zhu, L. D. Zhou, H. Liu, *et al.*, China Ocean Press, ISBN 978-7-5027-7062-4), pp. 33–40 (in Chinese), Ji'nan, 22–24 Aug. 2008.
18. D. Q. Lu^{*#} & S. Q. Dai, “Asymptotic solutions for flexural–gravity waves due to a transient disturbance,” *Proceedings of the 23rd International Workshop on Water Waves and Floating Bodies* (Edited by H. S. Choi & K. Kim, Seoul National University, ISBN 978-89-5708-146-4), pp. 120–123, Jeju, Korea, 13–16 Apr. 2008.
[http://www.iwwwfb.org/Abstracts/iwwwfb23/iwwwfb23_30.pdf]
 17. D. Q. Lu[#], “Far-field waves due to a submerged body in a viscous fluid,” *Proceedings of the 20th National Conference on Hydrodynamics* (Edited by D. X. Zhu, L. D. Zhou, X. C. Yang, *et al.*, China Ocean Press, ISBN 978-7-5027-6846-1), pp. 635–639 (in Chinese), Taiyuan, 23–25 Aug. 2007.
 16. D. Q. Lu^{*#}, X. B. Chen & A. T. Chwang, “Steady ship waves due to a simple source in a viscous fluid,” *New Trends in Fluid Mechanics Research: Proceedings of the 5th International Conference on Fluid Mechanics* (Edited by F. G. Zhuang & J. C. Li, Tsinghua University Press & Springer, ISBN 978-7-302-15894-3), pp. 312–315, Shanghai, China, 15–19 Aug. 2007.
 15. D. Q. Lu^{*#} & C. O. Ng, “Interfacial capillary–gravity waves due to a stokeslet,” *Proceedings of the 5th International Conference on Nonlinear Mechanics* (Edited by W. Z. Chien, S. Q. Dai, Z. W. Zhou, *et al.*, Shanghai University Press, ISBN 978-7-81118-164-7), pp. 1055–1059, Shanghai, China, 11–14 Jun. 2007.
 14. D. Q. Lu^{*#} & A. T. Chwang, “Unsteady interaction between viscous far wakes and a free surface due to a two-dimensional submerged body,” *Proceedings of the 3rd Asia-Pacific Workshop on Marine Hydrodynamics* (Edited by G. P. Miao & R. C. Zhu), pp. 310–314, Shanghai, China, 27–28 Jun. 2006.
 13. X. B. Chen^{*#}, D. Q. Lu, W. Y. Duan & A. T. Chwang, “Potential flow below the capillary surface of a viscous fluid,” *Proceedings of the 21st International Workshop on Water Waves and Floating Bodies* (Edited by C. M. Linton, M. McIver & P. McIver, Loughborough University, ISBN 094-797-412-1), pp. 13–16, Loughborough, UK, 2–5 Apr. 2006.
[http://www.iwwwfb.org/Abstracts/iwwwfb21/iwwwfb21_04.pdf]
 12. S. Q. Dai^{*}, G. Wei, D. Q. Lu & X. B. Su, “Theoretical and experimental investigation on waves due to a moving dipole in a stratified fluid,” *Advances in Engineering Mechanics - Reflections and Outlooks - In Honor of Theodore Y.-T. Wu* (Edited by A. T. Chwang, M. H. Teng & D. T. Valentine, World Scientific Publishing, ISBN 981-256-144-7), pp. 213–221, 2005.
[https://doi.org/10.1142/9789812702128_0015]
 11. D. Q. Lu^{*#} & A. T. Chwang, “Free-surface waves due to an unsteady stokeslet in a viscous fluid of infinite depth,” *Proceedings of the 6th International Conference on Hydrodynamics* (Edited by L. Cheng & K. Yeow, Taylor & Francis Group, London, ISBN 04 1536 304 7), pp. 611–617, Perth, Western Australia, 24–26 Nov. 2004.
 10. D. Q. Lu[#], “Dispersion relation for steady viscous ship waves,” *Proceedings of the 9th National Conference on Modern Mathematics and Mechanics* (Edited by S. Q. Dai, Z. W. Zhou, C. J. Cheng, *et al.*, Shanghai University Press, ISBN 7-81058-776-5), pp. 504–505, Shanghai, 4–7 Oct. 2004.
 9. D. Q. Lu[#], “Free-surface waves due to an oscillating stokeslet,” *Proceedings of the 9th National Conference on Modern Mathematics and Mechanics* (Edited by S. Q. Dai, Z. W. Zhou, C. J. Cheng, *et al.*, Shanghai University Press, ISBN 7-81058-776-5), pp. 506–509, Shanghai, 4–7 Oct. 2004.

8. D. Q. Lu*[#] & A. T. Chwang, "Interfacial ship waves in two-fluid systems," *Recent Advances in Fluid Mechanics: Proceedings of the 4th International Conference on Fluid Mechanics* (Edited by F. G. Zhuang & J. C. Li, Tsinghua University Press & Springer-Verlag, ISBN 7-302-08817-9), pp. 292–295, Dalian, China, 20–23 Jul. 2004.
7. D. Q. Lu & A. T. Chwang*[#], "Transient free-surface waves due to a suddenly stopping body," *Proceedings of the 2nd International Conference on Asian and Pacific Coasts* (Edited by Y. Goda, W. Kioka & K. Nadaoka, World Scientific Publishing, ISBN 981-238-558-1), p. 49; *CD-ROM* (ISBN: 978-981-4485-29-6), APAC021, 9 pages; Makuhari Messe, Chiba, Japan, 29 Feb. – 3 Mar. 2004.
[https://doi.org/10.1142/9789812703040_0021]
6. D. Q. Lu* & A. T. Chwang, "Green functions for linearized viscous flows," *Proceedings of the 17th National Conference on Hydrodynamics & the 6th National Congress on Hydrodynamics* (Edited by L. D. Zhou, W. W. Shao, C. J. Lu, *et al.*, China Ocean Press, ISBN 7-5027-5939-5), pp. 283–291, Hong Kong, 29 Dec. 2003 – 4 Jan. 2004.
5. D. Q. Lu* & A. T. Chwang, "Two-dimensional free-surface waves due to an oscillating Oseenlet," *Proceedings of the 17th National Conference on Hydrodynamics & the 6th National Congress on Hydrodynamics* (Edited by L. D. Zhou, W. W. Shao, C. J. Lu, *et al.*, China Ocean Press, ISBN 7-5027-5939-5), pp. 299–307, Hong Kong, 29 Dec. 2003 – 4 Jan. 2004.
4. D. Q. Lu[#] & A. T. Chwang*, "Unsteady viscous waves generated by a surface-piercing body," *Proceedings of the 1st Asian and Pacific Coastal Engineering Conference* (Edited by D. H. Qiu & Y. C. Li, Dalian University of Technology Press, ISBN 7-5611-1975-5), Vol. 1, pp. 334–342, Dalian, China, 18–21 Oct. 2001.
3. D. Q. Lu[#], S. Q. Dai* & B. S. Zhang, "Hamiltonian formulation of nonlinear water waves in a two-fluid system," *Proceedings of the 3rd International Conference on Nonlinear Mechanics* (Edited by W. Z. Chien, C. J. Cheng, S. Q. Dai, *et al.*, Shanghai University Press, ISBN 7-81058-036-1), pp. 518–521, Shanghai, China, 17–20 Aug. 1998.
2. B. S. Zhang*, D. Q. Lu & S. Q. Dai, "Explicit expressions for the infinite-dimensional Hamiltonian operator series of KdV equation," *Proceedings of the 7th National Conference on Modern Mathematics and Mechanics* (Edited by C. J. Cheng, S. Q. Dai & Y. L. Liu, Shanghai University Press, ISBN 7-81058-011-6), pp. 293–296 (in Chinese), Shanghai, Sep. 1997.
1. D. Q. Lu*, S. Q. Dai & B. S. Zhang, "Infinite-dimensional Hamiltonian structure for nonlinear water waves," *Proceedings of the 7th National Conference on Modern Mathematics and Mechanics* (Edited by C. J. Cheng, S. Q. Dai & Y. L. Liu, Shanghai University Press, ISBN 7-81058-011-6), pp. 386–389 (in Chinese), Shanghai, Sep. 1997.

➤ **Oral Presentations with Abstracts in Conferences and Workshops**
(Corresponding author*, Presenting author[#])

26. D. Q. Lu[#], "Theoretical models and analytical methods in hydroelasticity problems for a very large floating structure," *the 10th National Conference on Fluid Mechanics*, Hangzhou, 25–28 Oct. 2018.
25. D. Q. Lu[#], "Analytical solution for the hydroelastic wave resistance of a concentrated load moving between two semi-infinite fluids," *the 8th Green's Function Seminar*, Beijing, China, 1 Sep. 2018.

24. D. Q. Lu[#], “Idea and recent applications of the Poincaré–Lighthill–Kuo method,” *the 16th National Conference on Modern Mathematics and Mechanics*, Kunming, 24–26 Aug. 2018.
23. D. Q. Lu[#], “Hydroelastic response of a floating airport due to wave actions” (Invited Plenary Lecture), *2018 National Conference on Industrial Fluid Mechanics*, Beijing, 20–21 Aug. 2018.
22. D. Q. Lu[#], “Poincaré–Lighthill–Kuo method for the head-on collision of nonlinear hydroelastic solitary waves,” *2018 National Conference on Singular Perturbation Theory and Its Applications*, Huzhou, 3–5 Aug. 2018.
21. D. Q. Lu[#], “New inner products for the eigenfunctions in the hydroelasticity problems of a floating airport” (Invited Submission), *the 2nd Chinese International Conference on Computational Fluid Dynamics*, Mianyang, China, 17–21 Jul. 2018.
20. D. Q. Lu[#], “Wave-induced hydroelastic responses of a very large floating structure” (Invited Submission), *the 1st International Workshop on Marine Hydrodynamics Modelling*, Harbin, China, 21–25 May 2018.
[<http://iwmhm.hrbeu.edu.cn>]
19. D. Q. Lu[#], “Asymptotic analysis and its application in water wave problems,” *the 1st International Workshop on Asymptotic Analysis in Ocean Engineering*, Singapore, 5–9 Feb. 2018.
18. D. Q. Lu[#], “Hydroelastic models for the fluid–solid coupling for very large floating structures” (Invited Lecture), *Forum on the Application of Fluid–Solid Coupling Mechanics in Naval and Ocean New Energy Engineering*, Shanghai, 11 Jan. 2018.
17. M. M. Bhatti & D. Q. Lu^{#*}, “Application of the PLK method to the head-on collision between two hydroelastic solitary waves” (Invited Sectional Lecture for the Symposium on Free-surface Waves and Flows), *Chinese Congress on Theoretical and Applied Mechanics – In Celebration of Chinese Society of Theoretical and Applied Mechanics' 70th Anniversary*, Beijing, 13–16 Aug. 2017.
16. J. S. Li[#] & D. Q. Lu^{*}, “Hydroelastic wave resistance due to a surface-moving line source” (in Chinese), *the 9th National Conference on Fluid Mechanics*, Nanjing, 20–23 Oct. 2016.
15. D. Q. Lu[#], “The method of matched eigenfunction expansions for the interaction of water waves with an elastic thin plate”, *the 15th National Conference on Modern Mathematics and Mechanics*, Xiamen, 26–28 Aug. 2016.
14. M. M. Bhatti[#] & D. Q. Lu^{*}, “Head-on collision between two hydroelastic solitary waves under an ice sheet,” *the 2nd International Conference on Singular Perturbation Theory and Its Applications*, Hefei, China, 24–28 Jun. 2016.
13. J. S. Li[#] & D. Q. Lu^{*}, “Hydroelastic wave resistance of a moving load on a floating thin visco-elastic plate,” *the Sixth Green's Function Seminar*, Shanghai, China, 18 Jun. 2016.
[http://oldsiamm.shu.edu.cn/portals/419/conferences/GFS2016/GFS2016_Proceedings.pdf]
12. D. Q. Lu[#], “Hydroelastic wave responses of a thin plate floating on a two-layer fluid” (Invited Plenary Lecture), *the 12th Shanghai–Hong Kong Forum on Mechanics and Its Application*, Hong Kong, 9 Apr. 2016.
[http://i2ms.ust.hk/hkstam/download/HKSTAM_AC2016_second%20announcement.pdf]
[http://i2ms.ust.hk/hkstam/download/HKSTAM_AC2016_Proceedings.pdf]
11. D. Q. Lu[#], “Effect of lateral stress on the hydroelastic waves generated by concentrated load,” (Mini-symposium on Hydrodynamics), *the Chinese Congress of Theoretical and Applied Mechanics'2015*, Shanghai, 15–18 Aug. 2015.

10. D. Q. Lu[#], “Hydroelastic effects of underlying current and compressive stress on a very large floating structure,” *the 8th National Conference on Fluid Mechanics*, Lanzhou, 17–19 Sep. 2014.
9. D. Q. Lu[#], “Effect of compressive stress on the singularity-induced hydroelastic waves,” *the 4th Green's Function Seminar* (Hosted by Zhengzhou University), Zhengzhou, 11 Aug. 2014.
8. D. Q. Lu^{#*} & H. Zhang, “Flexural–gravity wave resistances due to a line source steadily moving on a floating thin elastic plate,” *the 3rd Green's Function Seminar* (Hosted by Harbin Institute of Technology at Weihai), Weihai, 25 May 2013.
7. F. Xu & D. Q. Lu^{#*}, “Interaction of water waves with a horizontal elastic thin plate” (Mini-symposium on Hydrodynamics), *the Chinese Congress of Theoretical and Applied Mechanics'2011 and the Congress to Mark the 100th Anniversary of Hsue-shen Tsien's Birth*, Harbin, 22–24 Aug. 2011.
6. D. Q. Lu[#], “Green functions for linearized viscous flows and their applications in water wave problems,” *the 1st Green's Function Seminar* (Hosted by Harbin Engineering University), Harbin, 9 Jul. 2011.
5. D. Q. Lu[#], “Recent applications of stationary-phase method to water wave problems,” *the 1st International Conference on Singular Perturbation Theory and Application*, Shanghai, 5–8 Jun. 2010.
4. D. Q. Lu[#], “Far-field linear waves due to a disturbance submerged in a fluid” (Invited Plenary Lecture), *the 6th Shanghai–Hong Kong Forum on Mechanics and Its Application*, Shanghai, 4 Jul. 2009.
3. D. Q. Lu[#], “Application of the generalized stationary-phase method to water waves” (Invited Sectional Lecture for the Symposium on Rational Mechanics and New Methods in Mechanics), *Chinese Congress on Theoretical and Applied Mechanics – In Celebration of Chinese Society of Theoretical and Applied Mechanics' 50th Anniversary*, Beijing, 20–22 Aug. 2007.
2. D. Q. Lu[#], “Flexural–gravity waves in an inviscid fluid of finite depth,” *the 4th Shanghai–Hong Kong Forum on Mechanics and Its Application*, Shanghai, 16 Jun. 2007.
1. D. Q. Lu[#] & A. T. Chwang*, “Interaction of laminar far wake with unsteady viscous free-surface waves,” *2001 Mechanics and Materials Summer Conference*, San Diego, CA, USA, 27–29 Jun. 2001

➤ **Miscellanea**

10. D. Q. Lu, “Minutes of the 2nd Conference of Global Chinese on Hydrodynamics,” *Chinese Journal of Hydrodynamics*, Vol. 31, No. 6, pp. 776–777 (in Chinese), Nov. 2016.
9. S. Q. Dai & D. Q. Lu*, “Minutes of the 27th (2015) National Conference on Hydrodynamics & the 5th Cross-Strait Conference on Hydrodynamics,” *Chinese Journal of Hydrodynamics*, Vol. 30, No. 6, pp. 736–737 (in Chinese), Nov. 2015.
8. D. Q. Lu* & L. Y. Dong, “Dai Shiqiang,” *Biographies of Famous Scientists of the 20th Century in China: Mechanics*, Vol. 3 (Edited by Z. M. Zheng & W. Z. Chien, Science Press, ISBN 978-7-03-042815-8), pp. 603–615, Jan. 2015.
7. D. Q. Lu, “Overview of the 6th International Conference on Asian and Pacific Coasts,” *Journal of Hydrodynamics*, Vol. 24, No. 5, p. 800, Elsevier, Oct. 2012.

[[https://doi.org/10.1016/S1001-6058\(11\)60306-5](https://doi.org/10.1016/S1001-6058(11)60306-5)]

6. D. Q. Lu, "Overview of the 9th International Conference on Hydrodynamics (ICHHD-2010)," *Chinese Journal of Hydrodynamics*, Vol. 25, No. 6, pp. 857–858 (in Chinese), Nov. 2010.
5. D. Q. Lu, "Overview of the 9th International Conference on Hydrodynamics," *Journal of Hydrodynamics*, Vol. 22, No. 5, pp. 742–744, Elsevier, Oct. 2010.
[[https://doi.org/10.1016/S1001-6058\(09\)60111-6](https://doi.org/10.1016/S1001-6058(09)60111-6)]
4. D. Q. Lu, "Overview of the 5th International Conference on Asian and Pacific Coasts," *Journal of Hydrodynamics*, Vol. 22, No. 1, p. 124, Elsevier, Feb. 2010.
[[https://doi.org/10.1016/S1001-6058\(09\)60039-1](https://doi.org/10.1016/S1001-6058(09)60039-1)]
3. D. Q. Lu, "Summary of the 5th International Conference on Asian and Pacific Coasts (APAC)," *Chinese Journal of Hydrodynamics*, Vol. 25, No. 1, p. 126 (in Chinese), Jan. 2010.
2. D. Q. Lu, "Summary of the 23rd International Workshop on Water Waves and Floating Bodies (IWWF)," *Chinese Journal of Hydrodynamics*, Vol. 23, No. 4, p. 474 (in Chinese), Jul. 2008.
1. D. Q. Lu, "Summary of the 6th International Conference on Hydrodynamics (ICHHD-2004)," *Journal of Hydrodynamics*, Ser. A, Vol. 20, No. 2, p. 276 (in Chinese), Mar. 2005.