List of publications of Sergey E. Skipetrov

January 2026

(see Web of Science or Google Scholar for more information)

Invited papers & commentaries

1. S.E. Skipetrov, Localisation d'Anderson de la lumière, *Photoniques* **108,** 24–27 (2021).
2. S.E. Skipetrov, News and views: Raman shines back, *Nature Photonics* **11,** 144–146 (2017). SharedIt
3. S.E. Skipetrov and J.H. Page, Perspectives: Red light for Anderson localization, *New J. Phys.* **18,** 021001 (2016).
4. S.E. Skipetrov, News and views: Localizing light with electrons, *Nature Nanotechnology* **9,** 335–336 (2014).
5. S.E. Skipetrov, Viewpoint: Disorder makes a robust matter-wave interferometer, *Physics* **5,** 123 (2012).
6. S.E. Skipetrov, B.A. van Tiggelen et J.H. Page, La localisation forte d'Anderson des ondes classiques, *Images de la Physique 2009*, pp. 75–80 (2010).
7. S.E. Skipetrov, News and views: Disorder is the new order, *Nature* **432,** 285–286 (2004).

Articles in peer reviewed journals

Submitted 8. S. Finelli, B. Restivo, A. Ciamei, A. Trenkwalder, M. Inguscio, D.S. Petrov, S.E. Skipetrov, M. Zaccanti, Anomalous diffusion and localization in a disorder-free atomic mixture, arXiv:2601.13226.

2025 9. L.A. Razo López, P. Wulles, G.J. Aubry, S.E. Skipetrov and F. Mortessagne, Dynamics of transport by helical edge states, *Phys. Rev. A* **112**, L051502 (2025).

10. S.E. Skipetrov and I.M. Sokolov, Anderson localization of light by impurities in a solid transparent matrix, *Phys. Rev. B* **112**, 064206 (2025).

Editors' Suggestion 11. A. Yamilov, H. Cao and S.E. Skipetrov, Anderson transition for light in a three-dimensional random medium, *Phys. Rev. Lett.* **134**, 046302 (2025).

2024 12. S.E. Skipetrov, Higher-order localization landscape theory of Anderson localization, *Phys. Rev. B* **110**, 214209 (2024).

13. S. Mondal, K. Khare, S.E. Skipetrov, M. Kamp and S. Mujumdar, Modal complexity as a metric for Anderson localization, *Phys. Rev. B* **110**, L180201 (2024).

14. P. Wulles and S.E. Skipetrov, Topological photonic band gaps in honeycomb atomic arrays, *SciPost Phys. Core* **7**, 051 (2024).

2023 15. A. Yamilov, S.E. Skipetrov, T.W. Hughes, M. Minkov, Z. Yu, and H. Cao, Anderson localization of electromagnetic waves in three dimensions, *Nature Physics* **19**, 1308–1313 (2023). SharedIt

16. S.E. Skipetrov and P. Wulles, Photonic topological Anderson insulator in a two-dimensional atomic lattice, *Comptes Rendus. Physique* **24**(S3), 39–54 (2023).

2022 17. S. Zhang, J. Peuser, C. Zhang, F. Cardinaux, P. Zakharov, S.E. Skipetrov, R. Cerbino and F. Scheffold, Echo speckle imaging of dynamical processes in soft materials, *Optics Express* **30**, 30991 (2022).

18. G. Aubry, N. Fuchs, S. Skipetrov and F. Scheffold, Transport properties of optically thin solid dielectrics from frequency correlations of randomly scattered light, *Opt. Lett.* **47**, 1439 (2022).

19. S.E. Skipetrov and P. Wulles, Topological transitions and Anderson localization of light in disordered atomic arrays, *Phys. Rev. A* **105**, 043514 (2022).

2021 20. A. Goïcoechea, J.H. Page, and S.E. Skipetrov, Anisotropy of localized states in an anisotropic disordered medium, *Ann. Phys.* **435**, 168565 (2021).

21. B. Tallon, P. Roux, G. Matte, J. Guillard, J.H. Page, and S.E. Skipetrov, Ultra slow acoustic energy transport in dense fish aggregates, *Sci. Rep.* **11**, 17541 (2021).

22. B.A. van Tiggelen and S.E. Skipetrov, Longitudinal modes in diffusion and localization of light, *Phys. Rev. B* **103**, 174204 (2021).

2020 Editors' Suggestion 23. A. Goïcoechea, S.E. Skipetrov, and J.H. Page, Suppression of transport anisotropy at the Anderson localization transition in three-dimensional anisotropic media, *Phys. Rev. B* **102**, 220201(R) (2020).

24. S.E. Skipetrov, Localization of light in a three-dimensional disordered crystal of atoms, *Phys. Rev. B* **102**, 134206 (2020).
25. B. Tallon, P. Roux, G. Matte, J. Guillard, and S.E. Skipetrov, Acoustic density estimation of dense fish shoals, *J. Acoust. Soc. Am.* **148**, EL234 (2020).
26. M. Lott, P. Roux, L. Seydoux, B. Tallon, A. Pelat, S. Skipetrov, and A. Colombi, Localized modes on a metasurface through multiwave interactions, *Phys. Rev. Materials* **4**, 065203 (2020).
27. B. Tallon, P. Roux, G. Matte, J. Guillard, and S.E. Skipetrov, Mesoscopic wave physics in fish shoals, *AIP Advances* **10**, 055208 (2020).
28. S.E. Skipetrov, Finite-size scaling of the density of states inside band gaps of ideal and disordered photonic crystals, *Eur. Phys. J. B* **93**, 70 (2020). [Contribution to the Topical Issue "Recent Advances in the Theory of Disordered Systems", ed. F. Iglói and H. Rieger] SharedIt

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30. S.E. Skipetrov and I.M. Sokolov, Transport of light through a dense ensemble of cold atoms in a static electric field, *Phys. Rev. A* **100**, 013821 (2019).
31. S.E. Skipetrov and I.M. Sokolov, Search for Anderson localization of light by cold atoms in a static electric field, *Phys. Rev. B* **99**, 134201 (2019).

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32. L.A. Cobus, W.K. Hildebrand, S.E. Skipetrov, B.A. van Tiggelen, and J.H. Page, Transverse confinement of ultrasound through the Anderson transition in three-dimensional mesoglasses, *Phys. Rev. B* **98**, 214201 (2018).
33. S.E. Skipetrov, Localization transition for light scattering by cold atoms in an external magnetic field, *Phys. Rev. Lett.* **121**, 093601 (2018).
34. S.E. Skipetrov and I.M. Sokolov, Ioffe-Regel criterion of Anderson localization in the model of resonant point scatterers, *Phys. Rev. B* **98**, 064207 (2018).
35. S.E. Skipetrov and Y.M. Beltukov, Anderson transition for elastic waves in three dimensions, *Phys. Rev. B* **98**, 064206 (2018).
36. J.M. Escalante and S.E. Skipetrov, Level spacing statistics for light in two-dimensional disordered photonic crystals, *Sci. Rep.* **8**, 11569 (2018). SharedIt
37. S.E. Skipetrov and A. Sinha, Time-dependent reflection at the localization transition, *Phys. Rev. B* **97**, 104202 (2018).

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38. Y.M. Beltukov and S.E. Skipetrov, Finite-time scaling at the Anderson transition for vibrations in solids, *Phys. Rev. B* **96**, 174209 (2017).
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40. J.M. Escalante and S.E. Skipetrov, Longitudinal optical fields in light scattering from dielectric spheres and Anderson localization of light, *Ann. Phys. (Berlin)* **529**, 1700039 (2017).
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45. L.A. Cobus, S.E. Skipetrov, A. Aubry, B.A. van Tiggelen, A. Derode, and J.H. Page, Anderson mobility

gap probed by dynamic coherent backscattering, *Phys. Rev. Lett.* **116,** 193901 (2016).

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51. S.E. Skipetrov and I.M. Sokolov, Absence of Anderson localization of light in a random ensemble of point scatterers, *Phys. Rev. Lett.* **112,** 023905 (2014).

2013 52. G.M. Souche, J. Huillery, H. Pothier, P. Gandit, J.I. Mars, S.E. Skipetrov, and O. Bourgeois, Searching for thermal signatures of persistent currents in normal-metal rings, *Phys. Rev. B* **87,** 115120 (2013).

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66. N. Cherroret and S.E. Skipetrov, Effect of interactions on the diffusive expansion of a Bose-Einstein condensate in a three-dimensional random potential, *Phys. Rev. A* **79,** 063604 (2009).

67. N. Cherroret, S.E. Skipetrov and B.A. van Tiggelen, Comment on "Scaling behavior of classical wave transport in mesoscopic media at the localization transition", *Phys. Rev. B* **80,** 037101 (2009).

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panding in a random potential, *Phys. Rev. Lett.* **101,** 190406 (2008).

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91. S.E. Skipetrov and M.A. Kazaryan, Diffusion-wave spectroscopy of light-induced fluxes, *Optika Atmosfery i Okeana* **14**(5), 380–387 (2001) [*Atmospheric and Oceanic Optics* **14**(5), 344–350 (2001)].

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Invited talks at conferences, symposia, etc.

2026 115. L.A. Razo López, P. Wulles, G.J. Aubry, S.E. Skipetrov, and F. Mortessagne, Dynamics of wave transport by helical edge states, ⌘+ C Conference Dedicated to 60th Anniversary of Fabrice Mortessagne (Nice, France, January 20–21, 2026).

2025 116. S.E. Skipetrov, Numerical studies of Anderson localization of light in three dimensions, Workshop "Future of Nanophotonic Scattering 2025" (Bad Herrenalb, Germany, October 27–31, 2025).

117. L.A. Razo López, P. Wulles, G.J. Aubry, S.E. Skipetrov, and F. Mortessagne, Dynamic quantum spin Hall effect for light, 4th International Workshop "Biophotonics and optical angular momentum"—BIOAM 2025 (Palaiseau, France, September 1–3, 2025).

118. S.E. Skipetrov, Anderson localization of light (introductory lecture), Workshop "Waves in complex media: Theoretical aspects, numerical methods, and applications" (Henri Poincaré Institute, Paris, France, March 4–7, 2025).

2024 119. S.E. Skipetrov, Towards Anderson localization of light in three dimensions, GDR Complexe Annual Meeting (Paris, France, December 2–4, 2024).

120. S.E. Skipetrov, Topological phenomena in light scattering by cold atoms, CoScaLi VIII: Workshop on collective scattering of light (Fernando de Noronha, Brazil, August 25–30, 2024).

121. S.E. Skipetrov, Longitudinal waves prevent Anderson localization of light, The 54th Winter Colloquium on the Physics of Quantum Electronics—PQE 2024 (Snowbird, Utah, USA, January 8–12, 2024).

2023 122. S.E. Skipetrov & J.H. Page, Anderson localization, International Thematic School on "Waves in Complex Media. From Theory to Practice" (Les Houches Physics School, France, September 18–29, 2023).

2021 123. S.E. Skipetrov, Interplay of disorder and topology in resonant multiple scattering of light, GDR COMPLEXE Annual Workshop (Paris, France, December 13–15, 2021).

124. S.E. Skipetrov, Disorder and topology in planar arrays of atoms, CoScaLi 2021: Workshop on collective scattering of light (Porquerolles, France, September 12–17, 2021).

125. S.E. Skipetrov, Disorder and topology in planar arrays of resonant scatterers, EOS Annual Meeting (EOSAM) 2021. Topical Meeting "Waves in Complex Photonic Media" (Online talk, Rome, Italy, September 13–17, 2021).

2020 126. S.E. Skipetrov, Anderson localization of light by cold atoms, School on "Anderson Localization: Landscape Theory, Experiments with Ultracold Atoms" organized by Simons Collaboration on Localization of Waves. (Initially planned in Arcachon, France. Took place online due to Covid-19 pandemic, October 7–9, 2020).

127. S.E. Skipetrov, Localization of light in 3D by point scatterers, International conference "Localisation 2020" (Initially planned in Sapporo, Japan. Took place online due to Covid-19 pandemic, August 24–29, 2020).

128. S.E. Skipetrov, Second harmonic generation in the regime of Anderson localization, Workshop on "Complex Materials for Nonlinear Optics"—CMNO 2020 (ETH Hönggerberg, Zürich, Switzerland, January 29–31, 2020).

2019 129. S.E. Skipetrov, Intensity of waves inside a strongly disordered medium, Workshop "Atoms and Photons Nice 2019" (Nice, France, November 5–7, 2019).

130. S.E. Skipetrov, Anderson localization of vector waves, International School and Conference on Disorder in Materials Science—DisoMAT 2019 (Potsdam, Germany, September 24–26, 2019).

131. S.E. Skipetrov, Anderson localization of vector waves, Conference "Waves Côte d'Azur", Topical meeting "Wave phenomena in disordered systems" (Nice, France, June 4–7, 2019).

132. S.E. Skipetrov, Anderson localization of light, Symposium "Soft Matter, Bioinspiration and Photonics" (Messkirch Castle, Germany, May 29, 2019).

2018

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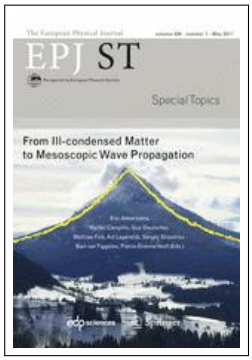

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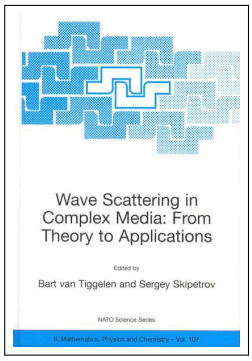

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