

LIST OF PUBLICATIONS OF SERGEY E. SKIPETROV

JUNE 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

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| Submitted | 8. J.V.S. Ferreira, A.M.G de Melo, N.A. Moreira, S.E. Skipetrov, R. Kaiser, R. Bachelard, Polarization-controlled transport of light in a two-dimensional waveguide, arXiv:2606.13437 . |
| | 9. A. Goïcoechea, A. Yamilov, C. Ferise, S.E. Skipetrov, H. Cao, and M. Davy, Experimental observation of three-dimensional Anderson localization of electromagnetic waves, arXiv:2606.04897 . |
| | 10. S. Lucas, C. Miniatura, and S.E. Skipetrov, Delocalization transition for light in two dimensions, arXiv:2604.22919 . |
| | 11. 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 | 12. L.A. Razo López, P. Wulles, G.J. Aubry, S.E. Skipetrov and F. Mortessagne, Dynamics of transport by helical edge states, <i>Phys. Rev. A</i> 112 , L051502 (2025). |
| | 13. S.E. Skipetrov and I.M. Sokolov, Anderson localization of light by impurities in a solid transparent matrix, <i>Phys. Rev. B</i> 112 , 064206 (2025). |
| |  14. A. Yamilov, H. Cao and S.E. Skipetrov, Anderson transition for light in a three-dimensional random medium, <i>Phys. Rev. Lett.</i> 134 , 046302 (2025). |
| 2024 | 15. S.E. Skipetrov, Higher-order localization landscape theory of Anderson localization, <i>Phys. Rev. B</i> 110 , 214209 (2024). |
| | 16. S. Mondal, K. Khare, S.E. Skipetrov, M. Kamp and S. Mujumdar, Modal complexity as a metric for Anderson localization, <i>Phys. Rev. B</i> 110 , L180201 (2024). |
| | 17. P. Wulles and S.E. Skipetrov, Topological photonic band gaps in honeycomb atomic arrays, <i>SciPost Phys. Core</i> 7 , 051 (2024).  |
| 2023 | 18. A. Yamilov, S.E. Skipetrov, T.W. Hughes, M. Minkov, Z. Yu, and H. Cao, Anderson localization of electromagnetic waves in three dimensions, <i>Nature Physics</i> 19 , 1308–1313 (2023).  SharedIt |
| | 19. S.E. Skipetrov and P. Wulles, Photonic topological Anderson insulator in a two-dimensional atomic lattice, <i>Comptes Rendus. Physique</i> 24 (S3), 39–54 (2023).  |
| 2022 | 20. 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, <i>Optics Express</i> 30 , 30991 (2022).  |
| | 21. G. Aubry, N. Fuchs, S. Skipetrov and F. Scheffold, Transport properties of optically thin solid dielectrics from frequency correlations of randomly scattered light, <i>Opt. Lett.</i> 47 , 1439 (2022).  |
| | 22. S.E. Skipetrov and P. Wulles, Topological transitions and Anderson localization of light in disordered atomic arrays, <i>Phys. Rev. A</i> 105 , 043514 (2022). |
| 2021 | 23. A. Goïcoechea, J.H. Page, and S.E. Skipetrov, Anisotropy of localized states in an anisotropic disordered medium, <i>Ann. Phys.</i> 435 , 168565 (2021). |

24. 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). 
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28. 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). 
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31. 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] 
- 2019 32. S.E. Skipetrov and I.M. Sokolov, Intensity of waves inside a strongly disordered medium, *Phys. Rev. Lett.* **123**, 233903 (2019).
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34. 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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37. 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).
38. S.E. Skipetrov and Y.M. Beltukov, Anderson transition for elastic waves in three dimensions, *Phys. Rev. B* **98**, 064206 (2018).
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43. 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).
44. N. Khebbache, A. Maurice, S. Djabi, I. Russier-Antoine, Ch. Jonin, S.E. Skipetrov, and P.-F. Brevet, Second-harmonic scattering from metallic nanoparticles in a random medium, *ACS Photonics* **4**, 262–267 (2017).
45. B.A. van Tiggelen, S.E. Skipetrov, and J.H. Page, Position-dependent radiative transfer as a tool for studying Anderson localization: Delay time, time-reversal and coherent backscattering, *Eur. Phys. J. Spec. Top.* **226**, 1457 (2017). [Contribution to the Topical Collection “From Ill-condensed Matter to

Mesoscopic Wave Propagation”, ed. E. Akkermans *et al.*]

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63. B. Payne, A. Yamilov and S.E. Skipetrov, Anderson localization as position-dependent diffusion in disordered waveguides, *Phys. Rev. B* **82**, 024205 (2010).
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100. A.A. Karabutov, I.M. Pelivanov, N.B. Podymova, and S.E. Skipetrov, Determination of the optical characteristics of turbid media by the laser optoacoustic method, *Kvantovaya Elektronika* **29**(3), 215–220 (1999) [*Quantum Electronics* **29**(12), 1054–1059 (1999)].
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113. S.S. Chesnokov and S.E. Skipetrov, Optical resolution through atmospheric turbulence with finite outer scale, *Opt. Commun.* **141**(3,4), 113–117 (1997).
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INVITED TALKS AT CONFERENCES, SYMPOSIA, ETC.

- 2026 118. S.E. Skipetrov, Anderson localization in a disorder-free atomic mixture, Workshop on Impurity Problems in Quantum Mixtures: from Ultracold Gases to Electron Matter (ICTP, Trieste, Italy, February 23–25, 2026).
119. L.A. Razo López, P. Wulles, G.J. Aubry, S.E. Skipetrov, and F. Mortessagne, Dynamics of wave transport by helical edge states, $\mathfrak{X} + C$ Conference Dedicated to 60th Anniversary of Fabrice Mortessagne (Nice, France, January 20–21, 2026).
- 2025 120. 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).
121. 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).
122. 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 123. S.E. Skipetrov, Towards Anderson localization of light in three dimensions, GDR Complexe Annual Meeting (Paris, France, December 2–4, 2024).
124. 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).
125. 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 126. 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 127. S.E. Skipetrov, Interplay of disorder and topology in resonant multiple scattering of light, GDR COMPLEXE Annual Workshop (Paris, France, December 13–15, 2021).
128. 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).
129. 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).
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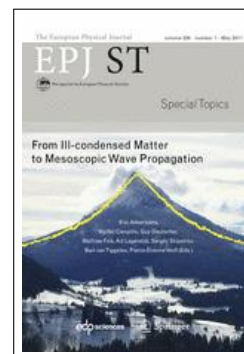
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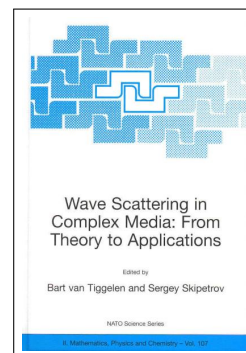
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