








## LIST OF PUBLICATIONS OF SERGEY E. SKIPETROV

DECEMBER 2022

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

## INVITED PAPERS &amp; 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. S.E. Skipetrov and P. Wulles, Photonic topological Anderson insulator in a two-dimensional atomic lattice, <a href="#">arXiv:2212.05046</a> .  |
|           | 9. A. Yamilov, S.E. Skipetrov, T.W. Hughes, M. Minkov, Z. Yu, and H. Cao, Anderson localization of electromagnetic waves in three dimensions, <a href="#">arXiv:2203.02842</a> .  |
| 2022      | 10. 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> <b>30</b> , 30991 (2022).    |
|           | 11. 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> <b>47</b> , 1439 (2022).    |
|           | 12. S.E. Skipetrov and P. Wulles, Topological transitions and Anderson localization of light in disordered atomic arrays, <i>Phys. Rev. A</i> <b>105</b> , 043514 (2022).   |
| 2021      | 13. A. Goicoechea, J.H. Page, and S.E. Skipetrov, Anisotropy of localized states in an anisotropic disordered medium, <i>Ann. Phys.</i> <b>435</b> , 168565 (2021).   |
|           | 14. B. Tallon, P. Roux, G. Matte, J. Guillard, J.H. Page, and S.E. Skipetrov, Ultra slow acoustic energy transport in dense fish aggregates, <i>Sci. Rep.</i> <b>11</b> , 17541 (2021).    |
|           | 15. B.A. van Tiggelen and S.E. Skipetrov, Longitudinal modes in diffusion and localization of light, <i>Phys. Rev. B</i> <b>103</b> , 174204 (2021).  |
| 2020      | 16. A. Goicoechea, S.E. Skipetrov, and J.H. Page, Suppression of transport anisotropy at the Anderson localization transition in three-dimensional anisotropic media, <i>Phys. Rev. B</i> <b>102</b> , 220201(R) (2020).  |
|           | 17. S.E. Skipetrov, Localization of light in a three-dimensional disordered crystal of atoms, <i>Phys. Rev. B</i> <b>102</b> , 134206 (2020).   |
|           | 18. B. Tallon, P. Roux, G. Matte, J. Guillard, and S.E. Skipetrov, Acoustic density estimation of dense fish shoals, <i>J. Acoust. Soc. Am.</i> <b>148</b> , EL234 (2020).   |
|           | 19. M. Lott, P. Roux, L. Seydoux, B. Tallon, A. Pelat, S. Skipetrov, and A. Colombi, Localized modes on a metasurface through multiwave interactions, <i>Phys. Rev. Materials</i> <b>4</b> , 065203 (2020).   |
|           | 20. B. Tallon, P. Roux, G. Matte, J. Guillard, and S.E. Skipetrov, Mesoscopic wave physics in fish shoals, <i>AIP Advances</i> <b>10</b> , 055208 (2020).    |
|           | 21. S.E. Skipetrov, Finite-size scaling of the density of states inside band gaps of ideal and disordered photonic crystals, <i>Eur. Phys. J. B</i> <b>93</b> , 70 (2020). [Contribution to the Topical Issue “Recent Advances in the Theory of Disordered Systems”, ed. F. Iglói and H. Rieger]  SharedIt |
| 2019      | 22. S.E. Skipetrov and I.M. Sokolov, Intensity of waves inside a strongly disordered medium, <i>Phys. Rev. Lett.</i> <b>123</b> , 233903 (2019).  |

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24. 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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26. S.E. Skipetrov, Localization transition for light scattering by cold atoms in an external magnetic field, *Phys. Rev. Lett.* **121**, 093601 (2018).
27. 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).
28. S.E. Skipetrov and Y.M. Beltukov, Anderson transition for elastic waves in three dimensions, *Phys. Rev. B* **98**, 064206 (2018).
29. J.M. Escalante and S.E. Skipetrov, Level spacing statistics for light in two-dimensional disordered photonic crystals, *Sci. Rep.* **8**, 11569 (2018).    SharedIt
30. S.E. Skipetrov and A. Sinha, Time-dependent reflection at the localization transition, *Phys. Rev. B* **97**, 104202 (2018).
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33. 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).
34. 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).
35. 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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- 2014 40. M. Candé, A. Goetschy, and S.E. Skipetrov, Transmission of quantum entanglement through a random medium, *EPL* **107**, 54004 (2014).
41. W.K. Hildebrand, A. Strybulevych, S.E. Skipetrov, B.A. van Tiggelen, and J.H. Page, Observation of infinite-range intensity correlations above, at, and below the mobility edges of the 3D Anderson localization transition, *Phys. Rev. Lett.* **112**, 073902 (2014).
42. C.P. Lapointe, P. Zakharov, F. Enderli, T. Feurer, S.E. Skipetrov and F. Scheffold, Numerical simulations of Anderson localization of terahertz waves in disordered waveguides, *EPL* **105**, 34002 (2014).
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44. 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).
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46. M. Candé and S.E. Skipetrov, Quantum versus classical effects in two-photon speckle patterns, *Phys. Rev. A* **87**, 013846 (2013).
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- 2011 48. A. Goetschy and S.E. Skipetrov, Euclidean matrix theory of random lasing in a cloud of cold atoms, *EPL* **96**, 34005 (2011).
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51. S.E. Skipetrov and A. Goetschy, Eigenvalue distributions of large Euclidean random matrices for waves in random media, *J. Phys. A: Math. Theor.* **44**, 065102 (2011).
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93. S.E. Skipetrov, S.S. Chesnokov, S.D. Zakharov, M.A. Kazaryan, and V.A. Shcheglov, Ponderomotive action of light in the problem of multiple scattering of light in a randomly inhomogeneous medium, *Pis'ma Zh. Éksp. Teor. Fiz.* **67**(9), 611–615 (1998) [*JETP Lett.* **67**(9), 635–639 (1998)].
94. S.E. Skipetrov and S.S. Chesnokov, Analysis, by the Monte Carlo method, of the validity of the diffusion approximation in a study of dynamic multiple scattering of light in randomly inhomogeneous media, *Kvantovaya Elektronika* **25**(8), 753–757 (1998) [*Quantum Electronics* **28**(8), 733–737 (1998)].
95. S.E. Skipetrov, S.S. Chesnokov, S.D. Zakharov, M.A. Kazaryan, N.P. Korotkov, and V.A. Shcheglov, Multiple dynamic scattering of laser radiation on light-induced jet of microparticles in suspension, *Kvantovaya Elektronika* **25**(5), 447–451 (1998) [*Quantum Electronics* **28**(5), 434–438 (1998)].
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102. S.E. Skipetrov, Angular-temporal correlation of light in dynamically heterogeneous random media, *Europhys. Lett.* **40**(4), 381–386 (1997).
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INVITED TALKS AT CONFERENCES, SYMPOSIA, ETC.

- 2021 108. S.E. Skipetrov, Interplay of disorder and topology in resonant multiple scattering of light, GDR COMPLEXE Annual Workshop (Paris, France, December 13–15, 2021).
109. 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).

110. 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 111. 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).
112. 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).
113. 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 114. S.E. Skipetrov, Intensity of waves inside a strongly disordered medium, Workshop “Atoms and Photons Nice 2019” (Nice, France, November 5–7, 2019).
115. 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).
116. 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).
117. S.E. Skipetrov, Anderson localization of light, Symposium “Soft Matter, Bioinspiration and Photonics” (Messkirch Castle, Germany, May 29, 2019).
- 2018 118. S.E. Skipetrov, Anderson localization of vector waves, International workshop “Disordered systems: from localization to thermalization and topology” (Daejeon, South Korea, September 3–7, 2018).
119. S.E. Skipetrov, Localization phase diagram for light scattering by cold atoms in a strong magnetic field, CoScaLi V: Workshop on collective scattering of light (Fernando de Noronha, Brazil, August 27–31, 2018).
120. S.E. Skipetrov, Anderson localization of classical waves, EOS Topical Meeting on Waves in Complex Photonics Media: Fundamentals and Device Applications (Anacapri, Capri, Italy, June 4–7, 2018).
121. S.E. Skipetrov, Anderson localization of classical waves, Summer school Complex2018 “Transport, mesoscopy and imaging of waves in complex media ” (Cargèse, Corsica, France, May 28–June 1, 2018).
- 2017 122. S.E. Skipetrov, Anderson localization of vector waves, Workshop “New aspects of localization” (IRSAMC, Toulouse, France, November 27–28, 2017).
123. S.E. Skipetrov, [Anderson transitions in Euclidean random matrix models](#), Workshop “Waves and imaging in random media” (ICERM, Providence RI, USA, September 25–29, 2017).
124. S.E. Skipetrov, Anderson transitions for light and sound in 3D, International workshop “Discrete, nonlinear and disordered optics—DINDOS17” (Dresden, Germany, May 8–12, 2017).
125. S.E. Skipetrov, Anderson localization of classical waves in 3D, Summer school “Spatio-temporal control of waves: From imaging to sensing 2017” (Cargèse, Corsica, France, April 24–28, 2017).
126. S.E. Skipetrov, Scaling analysis of localization transition for light in a 3D atomic system, The 47th Winter Colloquium on the Physics of Quantum Electronics—PQE 2017 (Snowbird, Utah, USA, January 8–13, 2017).
- 2016 127. S.E. Skipetrov, Quantum optics of disordered media, Quantum engineering science and technologies symposium—QuESTS (Singapore, November 14–18, 2016).
128. S.E. Skipetrov, Scaling analysis of localization transition for classical waves, 10th International workshop on disordered systems—IWDS10 (Brescia, Italy, June 27–July 1, 2016).
129. S.E. Skipetrov, Localization of light in a cloud of cold atoms in magnetic field, CoScaLi IV: Workshop on collective scattering of light (Ubatuba, Brazil, May 9–12, 2016).
130. S.E. Skipetrov, Nonuniversality in mesoscopic wave physics, Roger Maynard memorial workshop (Grenoble, France, March 10–11, 2016).
- 2015 131. S.E. Skipetrov, Anderson localization and random lasing in a Euclidean random matrix model, NETADIS Conference “Statistical physics approaches to networks across disciplines” (London, UK, October 20–23,

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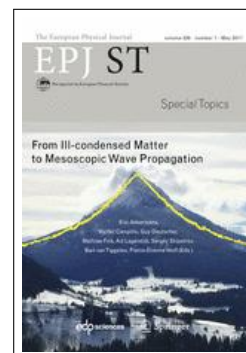
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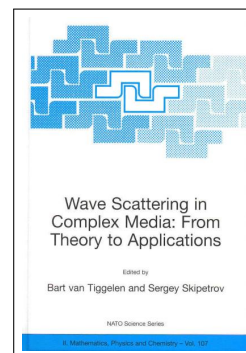
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