








LIST OF PUBLICATIONS OF SERGEY E. SKIPETROV

APRIL 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. Lucas, C. Miniatura, and S.E. Skipetrov, Delocalization transition for light in two dimensions, [arXiv:2604.22919](#).
9. 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 10. 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).
11. S.E. Skipetrov and I.M. Sokolov, Anderson localization of light by impurities in a solid transparent matrix, *Phys. Rev. B* **112**, 064206 (2025).
-  12. 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 13. S.E. Skipetrov, Higher-order localization landscape theory of Anderson localization, *Phys. Rev. B* **110**, 214209 (2024).
14. 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).
15. P. Wulles and S.E. Skipetrov, Topological photonic band gaps in honeycomb atomic arrays, *SciPost Phys. Core* **7**, 051 (2024).
- 2023 16. 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
17. 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 18. 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).
19. 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).
20. S.E. Skipetrov and P. Wulles, Topological transitions and Anderson localization of light in disordered atomic arrays, *Phys. Rev. A* **105**, 043514 (2022).
- 2021 21. A. Goïcoechea, J.H. Page, and S.E. Skipetrov, Anisotropy of localized states in an anisotropic disordered medium, *Ann. Phys.* **435**, 168565 (2021).
22. 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).
23. B.A. van Tiggelen and S.E. Skipetrov, Longitudinal modes in diffusion and localization of light, *Phys. Rev. B* **103**, 174204 (2021).

- 2020  24. A. Goicoechea, 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).
25. S.E. Skipetrov, Localization of light in a three-dimensional disordered crystal of atoms, *Phys. Rev. B* **102**, 134206 (2020).
26. 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). 
27. 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).
28. B. Tallon, P. Roux, G. Matte, J. Guillard, and S.E. Skipetrov, Mesoscopic wave physics in fish shoals, *AIP Advances* **10**, 055208 (2020). 
29. 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 30. S.E. Skipetrov and I.M. Sokolov, Intensity of waves inside a strongly disordered medium, *Phys. Rev. Lett.* **123**, 233903 (2019).
31. 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).
32. 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).
- 2018 33. 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).
34. S.E. Skipetrov, Localization transition for light scattering by cold atoms in an external magnetic field, *Phys. Rev. Lett.* **121**, 093601 (2018).
35. 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).
36. S.E. Skipetrov and Y.M. Beltukov, Anderson transition for elastic waves in three dimensions, *Phys. Rev. B* **98**, 064206 (2018).
37. J.M. Escalante and S.E. Skipetrov, Level spacing statistics for light in two-dimensional disordered photonic crystals, *Sci. Rep.* **8**, 11569 (2018).   
38. S.E. Skipetrov and A. Sinha, Time-dependent reflection at the localization transition, *Phys. Rev. B* **97**, 104202 (2018).
- 2017 39. Y.M. Beltukov and S.E. Skipetrov, Finite-time scaling at the Anderson transition for vibrations in solids, *Phys. Rev. B* **96**, 174209 (2017).
-  40. F. Riboli, F. Ucheddu, G. Monaco, N. Caselli, F. Intonti, M. Gurioli, and S.E. Skipetrov, Tailoring correlations of the local density of states in disordered photonic materials, *Phys. Rev. Lett.* **119**, 043902 (2017).
41. 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).
42. 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).
43. 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.*] 
- 2016 44. S.E. Skipetrov, Finite-size scaling analysis of localization transition for scalar waves in a three-dimensional ensemble of resonant point scatterers, *Phys. Rev. B* **94**, 064202 (2016).
45. S.E. Skipetrov, I.M. Sokolov, and M.D. Havey, Control of light trapping in a large atomic system by a

- static magnetic field, *Phys. Rev. A* **94**, 013825 (2016).
- 2015 46. 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).
47. S.E. Skipetrov and I.M. Sokolov, Magnetic-field-driven localization of light in a cold-atom gas, *Phys. Rev. Lett.* **114**, 053902 (2015).
- 2014 48. M. Candé, A. Goetschy, and S.E. Skipetrov, Transmission of quantum entanglement through a random medium, *EPL* **107**, 54004 (2014).
49. 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).
50. 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).
51. A. Aubry, L.A. Cobus, S.E. Skipetrov, B.A. van Tiggelen, A. Derode and J.H. Page, Recurrent scattering and memory effect at the Anderson localization transition, *Phys. Rev. Lett.* **112**, 043903 (2014).
52. 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 53. 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).
54. M. Candé and S.E. Skipetrov, Quantum versus classical effects in two-photon speckle patterns, *Phys. Rev. A* **87**, 013846 (2013).
55. A. Goetschy and S.E. Skipetrov, Euclidean random matrices and their applications in physics, [arXiv:1303.2880](https://arxiv.org/abs/1303.2880).
- 2011 56. A. Goetschy and S.E. Skipetrov, Euclidean matrix theory of random lasing in a cloud of cold atoms, *EPL* **96**, 34005 (2011).
57. V. Eremeev, S.E. Skipetrov and M. Orszag, Quantum theory of a two-mode open-cavity laser, *Phys. Rev. A* **84**, 023816 (2011).
58. A. Goetschy and S.E. Skipetrov, Non-Hermitian Euclidean random matrix theory, *Phys. Rev. E* **84**, 011150 (2011).
59. 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).
- 2010 60. N. Cherroret, S.E. Skipetrov and B.A. van Tiggelen, Transverse confinement of waves in three-dimensional random media, *Phys. Rev. E* **82**, 056603 (2010).
61. B. Payne, A. Yamilov and S.E. Skipetrov, Anderson localization as position-dependent diffusion in disordered waveguides, *Phys. Rev. B* **82**, 024205 (2010).
62. M.D. Birowosuto, S.E. Skipetrov, W.L. Vos, and A.P. Mosk, Observation of spatial fluctuations of the local density of states in random photonic media, *Phys. Rev. Lett.* **105**, 013904 (2010).
63. S.E. Skipetrov, J. Peuser, R. Cerbino, P. Zakharov, B. Weber and F. Scheffold, Noise in laser speckle correlation and imaging techniques, *Optics Express* **18**, 14519–14534 (2010).
64. W. Guerin, N. Mercadier, F. Michaud, D. Brivio, L.S. Froufe-Pérez, R. Carminati, V. Eremeev, A. Goetschy, S.E. Skipetrov, R. Kaiser, Towards a random laser with cold atoms, *J. Opt.* **12**, 024002 (2010).
- 2009 65. N. Cherroret, A. Peña, A.A. Chabanov and S.E. Skipetrov, Nonuniversal dynamic conductance fluctuations in disordered systems, *Phys. Rev. B* **80**, 045118 (2009).
66. V.Yu. Fedorov and S.E. Skipetrov, Photon noise in a random laser amplifier with fluctuating properties, *Phys. Rev. A* **79**, 063822 (2009).
67. 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).
68. 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).
- 2008 69. H. Hu, A. Strybulevych, J.H. Page, S.E. Skipetrov and B.A. van Tiggelen, Localization of ultrasound in

- a three-dimensional elastic network, *Nature Physics* **4**, 945–948 (2008).
70. N. Cherroret and S.E. Skipetrov, Long-range correlations of density in a Bose-Einstein condensate expanding in a random potential, *Phys. Rev. Lett.* **101**, 190406 (2008).
71. S.E. Skipetrov, A. Minguzzi, B.A. van Tiggelen and B. Shapiro, Anderson localization of a Bose-Einstein condensate in a 3D random potential, *Phys. Rev. Lett.* **100**, 165301 (2008).
72. N. Cherroret and S.E. Skipetrov, Microscopic derivation of self-consistent equations of Anderson localization in a disordered medium of finite size, *Phys. Rev. E* **77**, 046608 (2008).
- 2007 73. F.R. Ong, O. Bourgeois, S.E. Skipetrov, J. Chaussy, S. Popa, J. Mars, and J.-L. Lacoume, Fine frequency shift of single vortex entrance and exit in superconducting loops, *Physica C* **466**, 37–45 (2007).
74. S.E. Skipetrov, Quantum theory of dynamic multiple light scattering in fluctuating disordered media, *Phys. Rev. A* **75**, 053808 (2007).
- 2006 75. F. Jaillon, S.E. Skipetrov, J. Li, G. Dietsche, G. Maret, and T. Gisler, Diffusing-wave spectroscopy from head-like tissue phantoms: influence of a non-scattering layer, *Optics Express* **14**, 10181–10194 (2006).
76. F. Ong, O. Bourgeois, S.E. Skipetrov, and J. Chaussy, Thermal signatures of the Little-Parks effect in the heat capacity of mesoscopic superconducting rings, *Phys. Rev. B* **74**, 140503(R) (2006).
77. S. Balog, P. Zakharov, F. Scheffold, and S.E. Skipetrov, Photocount statistics in mesoscopic optics, *Phys. Rev. Lett.* **97**, 103901 (2006).
78. B.A. van Tiggelen and S.E. Skipetrov, Fluctuations of local density of states and C_0 speckle correlations are equal, *Phys. Rev. E* **73**, 045601(R) (2006).
79. S.E. Skipetrov and B.A. van Tiggelen, Dynamics of Anderson localization in open 3D media, *Phys. Rev. Lett.* **96**, 043902 (2006).
- 2005 80. O. Bourgeois, S.E. Skipetrov, F. Ong and J. Chaussy, Attojoule calorimetry of mesoscopic superconducting loops, *Phys. Rev. Lett.* **94**, 057007 (2005).
81. J. Li, G. Dietsche, D. Iftime, S.E. Skipetrov, G. Maret, T. Elbert, B. Rockstroh, and T. Gisler, Noninvasive detection of functional brain activity with near-infrared diffusing-wave spectroscopy, *J. Biomed. Optics* **10**, 044002 (2005).
- 2004 82. S.E. Skipetrov, Enhanced mesoscopic correlations in dynamic speckle patterns, *Phys. Rev. Lett.* **93**, 233901 (2004).
83. S.E. Skipetrov and B.A. van Tiggelen, Dynamics of weakly localized waves, *Phys. Rev. Lett.* **92**, 113901 (2004).
84. S.E. Skipetrov, Dynamic instability of speckle patterns in nonlinear random media, *J. Opt. Soc. Am. B* **21**(1), 168–176 (2004).
85. F. Scheffold, S. Romer, F. Cardinaux, H. Bissig, A. Stradner, V. Trappe, C. Urban, S.E. Skipetrov, L. Cipelletti and P. Schurtenberger, New trends in optical microrheology of complex fluids and gels, *Progress in Colloid and Polymer Science* **123**, 141–146 (2004).
- 2003 86. S.E. Skipetrov, Information transfer through disordered media by diffuse waves, *Phys. Rev. E* **67**(3), 036621 (2003).
87. S.E. Skipetrov, Langevin description of speckle dynamics in nonlinear disordered media, *Phys. Rev. E* **67**(1), 016601 (2003).
88. S.E. Skipetrov, Instability of speckle patterns in random media with noninstantaneous Kerr nonlinearity, *Opt. Lett.* **28**(8), 646–648 (2003).
89. E.V. Makeev and S.E. Skipetrov, Second harmonic generation in suspensions of spherical particles, *Opt. Commun.* **224**(1–3), 139–147 (2003).
- 2001 90. F. Scheffold, S.E. Skipetrov, S. Romer, and P. Schurtenberger, Diffusing-wave spectroscopy of nonergodic media, *Phys. Rev. E* **63**(6), 061404 (2001).
91. S.E. Skipetrov, Temporal fluctuations of waves in weakly nonlinear disordered media, *Phys. Rev. E* **63**(5), 056614 (2001).
92. 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)].

- 2000 93. S.E. Skipetrov and R. Maynard, Instabilities of waves in nonlinear disordered media, *Phys. Rev. Lett.* **85**(4), 736–739 (2000).
94. S.E. Skipetrov and R. Maynard, Nonuniversal correlations in multiple scattering, *Phys. Rev. B* **62**(2), 886–891 (2000).
95. G.V. Grigoryan, S.D. Zakharov, M.A. Kazaryan, N.P. Korotkov, S.E. Skipetrov, and A.P. Tamanyan, Light-induced motion of microparticles in suspension, *Optika Atmosfery i Okeana* **13**(5), 492–494 (2000) [*Atmospheric and Oceanic Optics* **13**(5), 456–458 (2000)].
- 1999 96. S.E. Skipetrov, Effective dielectric function of a random medium, *Phys. Rev. B* **60**(18), 12705–12709 (1999).
97. A.A. Karabutov, I.M. Pelivanov, N.B. Podymova, and S.E. Skipetrov, Direct measurement of the spatial intensity distribution of light in a scattering medium, *Pis'ma Zh. Éksp. Teor. Fiz.* **70**(3), 187–191 (1999) [*JETP Lett.* **70**(3), 183–188 (1999)].
98. 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)].
99. S.E. Skipetrov, Diffusing-wave spectroscopy in media with spatially heterogeneous scatterer dynamics, *Physics in Higher Education* **5**(1), 98–112 (1999).
- 1998 100. S.E. Skipetrov and I.V. Meglinskiĭ, Diffusing-wave spectroscopy in randomly inhomogeneous media with spatially localized scatterer flows, *Zh. Éksp. Teor. Fiz.* **113**(4), 1213–1222 (1998) [*JETP* **86**(4), 661–665 (1998)].
101. 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)].
102. 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)].
103. 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)].
104. S.E. Skipetrov, Effect of absorption on temporal correlation of light scattered from a turbid medium, *Opt. Commun.* **152**(4–6), 229–232 (1998).
105. S.E. Skipetrov, M.A. Kazaryan, N.P. Korotkov, and S.D. Zakharov, Multiple light-scattering probes of laser-induced particle flows in random media: Theoretical consideration, *Physica Scripta* **57**(3), 416–419 (1998).
106. M.A. Kazaryan, N.P. Korotkov, S.E. Skipetrov, and S.D. Zakharov, Light-induced dynamic backscattering of laser pulses in randomly inhomogeneous media, *J. Russian Laser Research* **19**(2), 186–189 (1998).
107. S.E. Skipetrov and S.S. Chesnokov, Statistical moments of the imaging system parameters in the turbulent atmosphere, *Optika Atmosfery i Okeana* **11**(4), 359–363 (1998) [*Atmospheric and Oceanic Optics* **11**(4), 311–315 (1998)].
108. S.E. Skipetrov and S.S. Chesnokov, Comparative analysis of two schemes of imaging through the turbulent atmosphere, *Optika Atmosfery i Okeana* **11**(7), 686–690 (1998) [*Atmospheric and Oceanic Optics* **11**(7), 90–93 (1998)].
- 1997 109. M. Heckmeier, S.E. Skipetrov, G. Maret, and R. Maynard, Imaging of dynamic heterogeneities in multiple-scattering media, *J. Opt. Soc. Am. A* **14**(1), 185–191 (1997).
110. S.E. Skipetrov, Angular-temporal correlation of light in dynamically heterogeneous random media, *Europhys. Lett.* **40**(4), 381–386 (1997).
111. S.S. Chesnokov and S.E. Skipetrov, Optical resolution through atmospheric turbulence with finite outer scale, *Opt. Commun.* **141**(3,4), 113–117 (1997).
112. S.E. Skipetrov and S.S. Chesnokov, Effect of the outer scale of turbulence on the resolution of an imaging system operating in the atmosphere, *Optika Atmosfery i Okeana* **10**(7), 786–793 (1997) [*Atmospheric and*

Oceanic Optics **10**(7), 490–494 (1997)].

113. S.E. Skipetrov, M.A. Kazaryan, N.P. Korotkov, and S.D. Zakharov, Diagnostics of laser-induced particle motion in dense random media using temporal field correlation, *J. Moscow Phys. Soc.* **7**(4), 411–420 (1997).
114. S.E. Skipetrov and S.S. Chesnokov, Feasibility of localization and diagnostics of dynamic inhomogeneities in strongly scattering turbid media, *Optika Atmosfery i Okeana* **10**(12), 1493–1499 (1997) [*Atmospheric and Oceanic Optics* **10**(12), 937–941 (1997)].
- 1996 115. S.E. Skipetrov and R. Maynard, Dynamic multiple scattering of light in multilayer turbid media, *Phys. Lett. A* **217**(2,3), 181–185 (1996).

INVITED TALKS AT CONFERENCES, SYMPOSIA, ETC.

- 2026 116. 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).
117. L.A. Razo López, P. Wulles, G.J. Aubry, S.E. Skipetrov, and F. Mortessagne, Dynamics of wave transport by helical edge states, $\aleph + C$ Conference Dedicated to 60th Anniversary of Fabrice Mortessagne (Nice, France, January 20–21, 2026).
- 2025 118. 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).
119. 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).
120. 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 121. S.E. Skipetrov, Towards Anderson localization of light in three dimensions, GDR Complexe Annual Meeting (Paris, France, December 2–4, 2024).
122. 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).
123. 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 124. 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 125. S.E. Skipetrov, Interplay of disorder and topology in resonant multiple scattering of light, GDR COMPLEXE Annual Workshop (Paris, France, December 13–15, 2021).
126. 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).
127. 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 128. 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).
129. 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).
130. 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 131. S.E. Skipetrov, Intensity of waves inside a strongly disordered medium, Workshop “Atoms and Photons

- Nice 2019” (Nice, France, November 5–7, 2019).
132. 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).
133. 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).
134. S.E. Skipetrov, Anderson localization of light, Symposium “Soft Matter, Bioinspiration and Photonics” (Messkirch Castle, Germany, May 29, 2019).
- 2018 135. 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).
136. 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).
137. 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).
138. 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 139. S.E. Skipetrov, Anderson localization of vector waves, Workshop “New aspects of localization” (IRSAMC, Toulouse, France, November 27–28, 2017).
140. 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).
141. 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).
142. 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).
143. 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 144. S.E. Skipetrov, Quantum optics of disordered media, Quantum engineering science and technologies symposium—QuESTS (Singapore, November 14–18, 2016).
145. 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).
146. 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).
147. S.E. Skipetrov, Nonuniversality in mesoscopic wave physics, Roger Maynard memorial workshop (Grenoble, France, March 10–11, 2016).
- 2015 148. 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, 2015).
149. S.E. Skipetrov, L.A. Cobus, W.K. Hildebrand, and J.H. Page, Ultrasound at the Anderson localization transition, The 15th international conference on phonon scattering in condensed matter “Phonons 2015” (Nottingham, UK, July 12–17, 2015).
150. S.E. Skipetrov, Localization of light in a cold-atom gas, 587th Wilhelm and Else Heraeus seminar “From photonics to polaritonics: non-equilibrium transport in complex media, photonic crystals and disordered nano-structures” (Bad Honnef, Germany, April 19–23, 2015).
151. S.E. Skipetrov, Near-field effects compromise Anderson localization of light, Discussions on nano & mesoscopic optics—DINAMO (El Chaltén, Patagonia, Argentina, April 8–12, 2015).
- 2014 152. S.E. Skipetrov, Euclidean random matrices for waves in random media, Research workshop of the Israel science foundation “Non-hermitean random matrices: 50 years after Ginibre” (Yad Hashmona, Judean Hills, Israel, October 22–27, 2014).
153. S.E. Skipetrov, Anderson localization of light? International workshop “Weak chaos and weak turbulence”

(Dresden, Germany, February 3–7, 2014).

- 2013 154. S.E. Skipetrov, Anderson localization of vector waves, 546th Wilhelm and Else Heraeus seminar “Light in disordered photonic media” (Bad Honnef, Germany, December 2–4, 2013).
155. S.E. Skipetrov, Emission and capture of light in random media: Euclidean random matrix theory, Advanced workshop on nonlinear photonics, disorder and wave turbulence (Trieste, Italy, July 15–19, 2013).
156. S.E. Skipetrov, Quantum optical resources for imaging and wave control in random media, International workshop “Controlling the propagation of waves in complex media: from shaping wave fields to designing smart materials” (Cargèse, Corsica, France May 27–June 1, 2013).
- 2012 157. S.E. Skipetrov, Euclidean random matrix theory for waves in open random media, International workshop “Wave chaos from the micro- to the macroscale” (Dresden, Germany, October 22–26, 2012).
158. S.E. Skipetrov, Euclidean random matrices for waves in random media, Workshop “Waves and imaging in complex media” (Heraklion, Greece, June 11–15, 2012).
- 2011 159. S.E. Skipetrov and A. Goetschy, Euclidean random matrix theory of random lasing, Workshop “Waves in correlated disorder” (Paris, France, November 30–December 2, 2011).
160. S.E. Skipetrov and A. Goetschy, Euclidean random matrix theory of random lasers, Physics@FOM Veldhoven 2011 (Veldhoven, The Netherlands, January 18–19, 2011).
- 2010 161. S.E. Skipetrov and A. Goetschy, Euclidean random matrices for waves in random media, VI Brunel Workshop on Random Matrix Theory (Brunel University, West London, UK, December 17–18, 2010).
162. S.E. Skipetrov, Quantum optics of random media, Nice Days of Waves in Complex Media. Special Session on Random Lasing (Nice, France, June 7–9, 2010).
163. S.E. Skipetrov, Wave dynamics in open disordered media, Second meeting of the GDR “Quantum Dynamics” (Dijon, France, March 24–26, 2010).
164. S.E. Skipetrov, Self-consistent theory of Anderson localization, The 40th Winter Colloquium on the Physics of Quantum Electronics—PQE 2010 (Snowbird, Utah, USA, January 3–7, 2010).
- 2009 165. S.E. Skipetrov, Anderson localization and its precursors for matter waves in random potentials, “Theoretical Physics Days” organized by the Grenoble Center for Theoretical Physics—CTPG (Grenoble, France, November 24–25, 2009).
166. S.E. Skipetrov, Quantum optics of random media, Annual Meeting of the Optical Society of America “Frontiers in Optics” (San Jose, California, USA, October 11–15, 2009).
- 2007 167. S.E. Skipetrov, N. Cherroret, and B.A. van Tiggelen, Anderson localization in open random media, Topical Meeting of the Optical Society of America “Photonic Metamaterials: From Random to Periodic—META 2007” (Jackson Hole, USA, June 4–7, 2007).
- 2006 168. S.E. Skipetrov, and B.A. van Tiggelen, Anderson localization of light, Summer school “Imaging, Communication, and Disorder” (Cargèse, Corsica, June 12–17, 2006).
169. S.E. Skipetrov and B.A. van Tiggelen, Anderson localization of light, 15th International Laser Physics Workshop—LPHYS’06 (Lausanne, Switzerland, July 24–28, 2006).
- 2005 170. S.E. Skipetrov, Dynamics of light in strongly scattering random media: breakdown of diffusion, Anderson localization and random lasers, International Conference on Coherent and Nonlinear Optics—ICONO 2005 (St. Petersburg, Russia, May 11–15, 2005).
- 2004 171. S.E. Skipetrov and B.A. van Tiggelen, Signatures of Anderson localization in pulse transmission through disordered media, 13th International Laser Physics Workshop—LPHYS’04 (ICTP, Trieste, Italy, July 12–16, 2004).
- 2003 172. S.E. Skipetrov, Les corrélations des ondes diffuses en milieu désordonné et leur rôle dans les télécommunications, Journée interdisciplinaire “Télécommunications en milieu désordonné” (Institut Henri Poincaré, Paris, France, Juin 20, 2003).
173. S.E. Skipetrov, Instability of optical speckle patterns in cold atomic gases ? Workshop “Saturation effects in multiple scattering of light by cold atomic gases” (Institut Non Linéaire de Nice, Sophia Antipolis, France, October 8–10, 2003).
- 2002 174. S.E. Skipetrov, Instabilities and chaos in nonlinear optics of disordered media, NATO Advanced Study

Institute “Wave Scattering in Complex Media: From Theory to Applications” (Cargèse, France, June 10–22, 2002).

- 2000 175. S.E. Skipetrov, Temporal fluctuations of waves in nonlinear disordered media, Ecole “Propagation des Ondes en Milieux Non-linéaires et Diffusifs” (Cargèse, France, September 3–9, 2000).
- 1999 176. S.E. Skipetrov, Spatio-temporal speckle correlations for imaging in turbid media, International Physics School “Waves and Imaging through Complex Media” (Cargèse, France, August 30–September 3, 1999).

PEER-REVIEWED CONFERENCE PROCEEDINGS

- 2010 177. B. Payne, A.G. Yamilov and S.E. Skipetrov, Anderson localization as position-dependent diffusion in disordered waveguides, in *Frontiers in Optics (FiO). OSA Technical Digest (CD)*, paper FTuQ3 (2010).
- 2009 178. S.E. Skipetrov, Quantum optics of random media, in *Frontiers in Optics (FiO). OSA Technical Digest (CD)*, paper FTuJ4 (2009).
179. A. Peña, A.A. Chabanov, N. Cherroret and S.E. Skipetrov, Nonuniversal dynamic conductance fluctuations, in *Frontiers in Optics (FiO). OSA Technical Digest (CD)*, paper FMC5 (2009).
- 2007 180. B.A. van Tiggelen, S.E. Skipetrov, N. Cherroret and S. Kawka, Self-consistent treatment of Anderson localization, in *Advances in Nanophotonics II, AIP Conference Proceedings* **959**, 79–96 (2007).
181. S.E. Skipetrov, N. Cherroret, and B.A. van Tiggelen, Anderson localization in open random media, in *Photonic Metamaterials: From Random to Periodic on CD-ROM* (The Optical Society of America, Washington, DC, 2007), MB2.
182. J.H. Page, H. Hu, S. Skipetrov, and B.A. van Tiggelen, Localization of sound in an open three-dimensional system, in *Photonic Metamaterials: From Random to Periodic on CD-ROM* (The Optical Society of America, Washington, DC, 2007), ThA4.
183. J.H. Page, H. Hu, S. Skipetrov, and B.A. van Tiggelen, Ultrasonic investigation of phonon localization in a disordered three-dimensional “mesoglass”, *J. Phys.: Conf. Ser.* **92**, 012129 (2007).
- 2006 184. S.E. Skipetrov and B.A. van Tiggelen, Weak localization of short pulses in disordered waveguides, *Acta Physica Polonica A* **109**, 101 (2006). Proceedings of the “2nd Workshop on Quantum Chaos and Localization Phenomena” (May 19–22, 2005 Warsaw, Poland).
185. O. Bourgeois, F. Ong and S.E. Skipetrov, Specific heat measurements of mesoscopic loops, in *Low Temperature Physics, Parts A and B, AIP Conference Proceedings* **850**, 735–738 (2006).
- 2005 186. J. Li, G. Dietsche, G. Maret, T. Gisler, B. Rockstroh, T. Elbert, and S.E. Skipetrov, Measurements of human motor and visual activities with diffusing-wave spectroscopy, *Proc. SPIE* **5864**, 58640J (2005).
- 2000 187. A.A. Karabutov, N.B. Podymova, I.M. Pelivanov, S.E. Skipetrov, and A.A. Oraevsky, Direct measurement of axial distribution of absorbed optical energy in turbid media by time-resolved optoacoustic method, in *Biomedical Optoacoustics*, A.A. Oraevsky, Ed., *Proc. SPIE* **3916**, 112–121 (2000).
188. S.E. Skipetrov, M.A. Kazaryan, N.P. Korotkov, S.D. Zakharov, G.V. Grigoryan, and A.G. Tamanyan, Multiple scattering of high-power laser radiation, *Proceedings of the International Conference on LASERS’99* (STS Press, McLean, VA, U.S.A., 2000), pp. 681–684.
- 1999 189. S.E. Skipetrov, S.S. Chesnokov, S.D. Zakharov, M.A. Kazaryan, N.P. Korotkov, and V.A. Shcheglov, Dynamic multiple scattering of laser radiation on light-induced flows of microparticles in suspension, *ICONO’98: Fundamental Aspects of Laser-Matter Interaction and New Nonlinear Optical Materials and Physics of Low-Dimensional Structures*, K.N. Drabovich, V.I. Emelyanov, V.A. Makarov, Eds., *Proc. SPIE* **3734**, 217–224 (1999).
190. S.E. Skipetrov, S.S. Chesnokov, I.V. Meglinsky, and V.V. Tuchin, Diffusing-wave spectroscopy of flows, *ICONO’98: Laser Spectroscopy and Optical Diagnostics: Novel Trends and Applications in Laser Chemistry, Biophysics, and Biomedicine*, A.Yu. Chikishev, V.N. Zadkov, A.M. Zheltikov, Eds., *Proc. SPIE* **3732**, 336–344 (1999).
191. S.E. Skipetrov, M.A. Kazaryan, S.D. Zakharov, and V.A. Shcheglov, Hydrodynamic flows induced by copper-vapor laser: Diagnostics using optical correlation spectroscopy, *Proceedings of the International Conference on LASERS’98* (Soc. Opt. & Quantum Electron., McLean, VA, U.S.A., 1999), pp. 367–374.
192. S.E. Skipetrov, M.A. Kazaryan, and S.D. Zakharov, Correlation spectroscopy for diagnostics of light-

induced particle motion in concentrated suspensions, *Fourth International Conference on Correlation Optics*, O.V. Angelsky, Ed., *Proc. SPIE* **3904**, 423–428 (1999).

- 1998 193. S.E. Skipetrov and R. Maynard, Diffusing wave spectroscopy in dynamically heterogeneous random media, *Second GR-I International Conference on New Laser Technologies and Applications*, A. Carabelas, P. Di Lazzaro, A. Torre, G. Baldacchini, Eds., *Proc. SPIE* **3423**, 252–256 (1998).
194. I.V. Meglinsky, V.V. Tuchin, S.E. Skipetrov, and S.S. Chesnokov, Diffuse photon probes of dynamic nonhomogeneities in random high scattering media, *MMET Conference Proceedings. 1998 International Conference on Mathematical Methods in Electromagnetic Theory—MMET’98* (IEEE, New York, 1998), v. 2, pp. 927–929.
195. S.E. Skipetrov, M.A. Kazaryan, S.D. Zakharov, and V.A. Shcheglov, Laser-induced particle flows in random media: Is the diagnostics with multiple-scattered light possible? *CD-ROM Proceedings of the International Conference on Optical Technology and Image Processing in Fluid, Thermal, and Combustion Flow—VSJ-SPIE’98* (Yokohama, Japan, December 7–9, 1998), paper AB090.

REGULAR PRESENTATIONS AT CONFERENCES, SYMPOSIA, ETC.

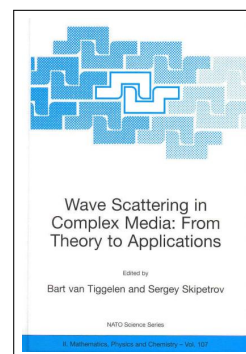
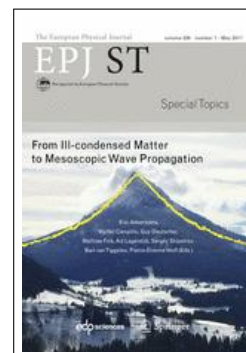
- 2025 196. L.A. Razo López, P. Wulles, G.J. Aubry, S.E. Skipetrov, and F. Mortessagne, How fast does the edge spin current flow? 13th International Conference on Elastic, Electrical, Transport, and Optical Properties of Inhomogeneous Media—ETOPIM 13 (New York, USA, June 16–20, 2025).
- 2024 197. S.E. Skipetrov, Anderson localization of light in three dimensions, International workshop “Localization: Emergent Platforms and Novel Trends” (Dresden, Germany, September 16–20, 2024).
198. S.E. Skipetrov and P. Wulles, Topological photonics in planar atomic lattices, International Workshop on Disordered Systems—IWDS2024 (Salamanca, Spain, June 17–21, 2024).
- 2023 199. S.E. Skipetrov and P. Wulles, Topological photonics in lattices of sub-wavelength resonators, PhotonIcs & Electromagnetics Research Symposium—PIERS 2023 (Prague, Czech Republic, July 3–6, 2023).
- 2022 200. S.E. Skipetrov and P. Wulles, Symmetry breakdowns and topological photonics in disordered atomic lattices (online talk), International conference “Localisation 2022” (Sapporo, Japan, August 25–30, 2022).
201. S.E. Skipetrov and P. Wulles, [Topological photonics in disordered atomic lattices](#), 12th International Conference on Elastic, Electrical, Transport, and Optical Properties of Inhomogeneous Media—ETOPIM 12 (Besancon, France, July 4–8, 2022).
- 2019 202. S.E. Skipetrov, Anderson localization of vector waves (poster), Workshop on Spectral Properties of Disordered Systems (Paris, January 9–11, 2019).
- 2013 203. M. Candé and S.E. Skipetrov, Bipartite entanglement through a random medium (poster), Workshop “Waves in complex media” organized by the GDR MesoImage (Grenoble, France, December 11–13, 2013).
204. S.E. Skipetrov, I.M. Sokolov, and A. Goetschy, Spontaneous decay, Anderson localization, and random laser action in cold atomic clouds, International Conference on Coherent and Nonlinear Optics—ICONO 2013 (Moscow, Russia, June 18–22, 2013).
- 2012 205. S.E. Skipetrov and I.M. Sokolov, Spontaneous decay of collective states in large ensembles of cold atoms (poster), Workshop “Recent developments in wave propagation and imaging in complex media” (Paris, France, November 7–9, 2012).
206. S.E. Skipetrov and A. Goetschy, Euclidean random matrices for waves in random media (poster), 13èmes Journées de la Matière Condensée (Montpellier, France, August 27–31, 2012).
207. S.E. Skipetrov and A. Goetschy, Euclidean matrix theory of random lasing, Workshop “Disordered quantum systems” (Paris, France, April 23–July 20, 2012).
208. S.E. Skipetrov and A. Goetschy, Random Green matrices for waves in disordered media (poster), Conference “Disordered quantum systems” (Paris, France, June 18–22, 2012).
209. S.E. Skipetrov and A. Goetschy, Random Green matrices for waves in disordered media (poster), Workshop “Theory of quantum gases and quantum coherence” (Lyon, France, June 5–8, 2012).
- 2011 210. S.E. Skipetrov and A. Goetschy, Random Green matrices for waves in random media, Workshop “Strong correlations and disorder in ultracold quantum gases” (Lyon, France, December 6–8, 2011).
211. S.E. Skipetrov and A. Goetschy, Euclidean matrix theory of random lasers (poster), Summer School

- “Recent developments in wave physics of complex media” (Cargèse, Corsica, France, May 2–7, 2011).
- 2009 212. S.E. Skipetrov, N. Cherroret, A. Peña and A.A. Chabanov, Nonuniversal dynamic conductance fluctuations, The 8th International Conference on the Electrical, Transport and Optical Properties of Inhomogeneous Media—ETOPIM 8 (Rethymnon, Crete, Greece, June 7–12, 2009).
213. S.E. Skipetrov, N. Cherroret and B.A. van Tiggelen, Transverse confinement of waves in 3D random media (poster), 4th Workshop on Quantum Chaos and Localization Phenomena (Warsaw, Poland, May 22–24, 2009).
- 2008 214. S.E. Skipetrov, A. Minguzzi, B.A. van Tiggelen and B. Shapiro, Anderson localization of a Bose-Einstein condensate in a 3D random potential (poster), Symposium “50 years of Anderson localization” (Paris, France, December 4–5, 2008).
215. S.E. Skipetrov, A. Minguzzi, B.A. van Tiggelen and B. Shapiro, Anderson localization of a Bose-Einstein condensate in a 3D random potential (poster), Workshop “Theory of quantum gases and quantum coherence” (Grenoble, France, June 3–7, 2008).
- 2007 216. S.E. Skipetrov, A. Minguzzi, B.A. van Tiggelen and B. Shapiro, Expansion of a Bose-Einstein condensate in a 3D random potential, “GDR IMCODE Days” (Grenoble, France, December 20–21, 2007).
- 2005 217. S.E. Skipetrov, Theory of Anderson localization, Workshop of the French-German International Research Training Group “Soft Condensed Matter Physics” (Konstanz, Germany, September 5–8, 2005).
218. S.E. Skipetrov and B.A. van Tiggelen, Anderson localization of seismic waves (poster), International School on Acoustical Imaging of Complex Media: Applications in Medicine, Seismology and Oceanography (Cargèse, Corsica, France, July 3–9, 2005).
219. S.E. Skipetrov and B.A. van Tiggelen, Transport theory for localized waves, 2nd Workshop on Quantum Chaos and Localisation Phenomena (Warsaw, Poland, May 19–22, 2005).
220. S.E. Skipetrov, Interference effects in disordered media are amplified with time (poster), International Meeting on “Mesoscopic Physics with Matter and Waves” (Laboratoire de Physique des Solides, Orsay, France, March 21–22, 2005).
- 2004 221. S.E. Skipetrov, Multiple scattering of light in nonlinear disordered media, 13th International Laser Physics Workshop—LPHYS’04 (ICTP, Trieste, Italy, July 12–16, 2004).
- 2003 222. S.E. Skipetrov, Wireless communications in disordered media with diffuse waves (internet report), Saratov Fall Meeting: International School for Young Scientists and Students on Optics, Laser Physics and Biophysics (Saratov, Russia, October 7–10, 2003).
- 2001 223. S.E. Skipetrov, Instabilité de speckle en milieux désordonnés et non linéaires, Colloque “Propagation dans des Milieux Hétérogènes: Diffusion et Conditions aux Limites” (ESPCI, Paris, France, Mai 10, 2001).
224. S.E. Skipetrov, Nonlinearity-induced temporal instability of multiple-scattering speckle patterns (poster), Workshop “Coherent Evolution in Noisy Environments” (Dresden, Germany, May 21–25, 2001).
- 2000 225. S.E. Skipetrov, Temporal fluctuations and instabilities of waves in nonlinear disordered media (poster), NATO Advanced Study Institute “Photonic Crystals and Light Localization” (Crete, Greece, June 18–30, 2000).
- 1999 226. S.E. Skipetrov and I.V. Meglinsky, Application of diffusing-wave spectroscopy methods for diagnostics of the blood flow, Firth International Scientific-Technical Conference on Optical Methods of Flow Investigation (Moscow, Russia, June 23–25, 1999).
- 1998 227. S.E. Skipetrov, Multiple scattering of light in random media with complex dynamic structure, XI School-Conference on Diffraction and Propagation of Waves (Moscow State University, Moscow, January 12–15, 1998).
228. S.E. Skipetrov, Diffusing-wave spectroscopy of light-induced flows in suspensions of microparticles (poster), NATO Advanced Study Institute “Diffuse Waves in Complex Media” (Les Houches, France, March 17–27, 1998).
229. S.E. Skipetrov, S.S. Chesnokov, S.D. Zakharov, M.A. Kazaryan, N.P. Korotkov, and V.A. Shcheglov, Dynamic multiple scattering of laser radiation on light-induced flows of microparticles in suspension (poster), XVI International Conference on Coherent and Nonlinear Optics—ICONO’98 (Moscow, Russia, June 29–July 3, 1998).

230. S.E. Skipetrov, S.S. Chesnokov, I.V. Meglinsky, and V.V. Tuchin, Diffusing-wave spectroscopy of flows (poster), XVI International Conference on Coherent and Nonlinear Optics—ICONO'98 (Moscow, Russia, June 29–July 3, 1998).
231. S.E. Skipetrov and S.S. Chesnokov, Cross-correlations in dynamic multiple scattering of light (poster), 17th General Conference of the Condensed Matter Division, European Physical Society and 6èmes Journées de la Matière Condensée, Société Française de Physique (Grenoble, France, August 25–29, 1998).
- 1997 232. S.E. Skipetrov, Temporal autocorrelation function of multiple-scattered light in a multilayer turbid medium, International Conference of Students and Postgraduates on Fundamental Sciences “Lomonosov-97” (Moscow State University, Moscow, April 8–10, 1997).
233. S.E. Skipetrov, Role of the outer scale of turbulence in problems of imaging through turbulent media, International Conference of Students and Postgraduates on Fundamental Sciences “Lomonosov-97” (Moscow State University, Moscow, April 8–10, 1997).
234. S.E. Skipetrov and R. Maynard, Diffusing wave spectroscopy in dynamically heterogeneous media, 2nd GR-I International Conference on New Laser Technologies and Applications (Olympia, Greece, June 1–4, 1997).
235. S.E. Skipetrov and S.S. Chesnokov, Comparison of several schemes of imaging through turbulent atmosphere, IV Symposium “Atmospheric and Oceanic Optics” (Tomsk, Russia, June 10–13, 1997).
236. S.E. Skipetrov and S.S. Chesnokov, Feasibility of localization and diagnostics of dynamic inhomogeneities in strongly scattering turbid media, IV Symposium “Atmospheric and Oceanic Optics” (Tomsk, Russia, June 10–13, 1997).
237. I.V. Meglinskii and S.E. Skipetrov, Diffusing-wave spectroscopy as a type of the optical correlation spectroscopy, Scientific School on Optics, Laser Physics, and Optoelectronics “Problems of Optical Physics” (Saratov, Russia, November 1997).
- 1996 238. S.E. Skipetrov, Imaging through atmospheric turbulence (poster), Memorial Conference of Young Scientists on Occasion of 70th Anniversary of Academician R.V. Khokhlov (Moscow State University, Moscow, October 15, 1996).

EDITED BOOKS & SPECIAL ISSUES

- 2017 239. *From Ill-condensed Matter to Mesoscopic Wave Propagation*, Special issue of *The European Physical Journal Special Topics* [*Eur. Phys. J. Spec. Top.* **226**(7)] in memory of Roger Maynard, edited by E. Akkermans, M. Campillo, G. Deutscher, M. Fink, A. Lagendijk, S. Skipetrov, B. van Tiggelen, P.-E. Wolf (EDP Sciences, Springer-Verlag 2017).
- 2003 240. *Wave Scattering in Complex Media: From Theory to Applications*, NATO Science Series II. Mathematics, Physics and Chemistry. Volume 107 (640 pages), edited by B.A. van Tiggelen and S.E. Skipetrov (Kluwer Academic Publishers, Dordrecht, 2003).



BOOK CHAPTERS

- 2003 241. S.E. Skipetrov and R. Maynard, Diffuse waves in nonlinear disordered media, in *Wave Scattering in Complex Media: From Theory to Applications*. NATO Science Series II. Mathematics, Physics and Chemistry. Volume 107, edited by B.A. van Tiggelen and S.E. Skipetrov (Kluwer Academic Publishers, Dordrecht, 2003), pp. 75–97.
242. F. Scheffold, F. Cardinaux, S. Romer, P. Schurtenberger, S.E. Skipetrov, and L. Cipelletti, Optical microrheology of soft complex materials, in *Wave Scattering in Complex Media: From Theory to Applications*. NATO Science Series II. Mathematics, Physics and Chemistry. Volume 107, edited by B.A. van Tiggelen and S.E. Skipetrov (Kluwer Academic Publishers, Dordrecht, 2003), pp. 553–563.
- 2001 243. S.E. Skipetrov, Spatio-temporal speckle correlations for imaging in turbid media, in *Waves and Imaging through Complex Media*, P. Sebbah, Ed. (Kluwer Academic Publishers, Dordrecht, 2001), pp. 435–443.

SOFTWARE

- 2022 244. S.E. Skipetrov, Frozen light—Transverse confinement of waves in three-dimensional random media, [DOI:10.5281/zenodo.7221105](https://doi.org/10.5281/zenodo.7221105).