Volume 19 Issue 8
August 2025

Editorial

Editorial: Quantum optics and light

Nature Photonics 19, 801 (2025). https://doi.org/10.1038/s41566-025-01734-0

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics: a bright future

Nature Photonics 19, 803–804 (2025). https://doi.org/10.1038/s41566-025-01733-1

Quantum optics has a bright future, with applications in quantum technologies, fundamental studies and innovative applications. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics and light

Nature Photonics 19, 805–806 (2025). https://doi.org/10.1038/s41566-025-01732-2

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Comment

Fundamental concepts

Nature Photonics 19, 807–808 (2025). https://doi.org/10.1038/s41566-025-01731-3

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Quantum information science

Nature Photonics 19, 809–810 (2025). https://doi.org/10.1038/s41566-025-01730-4

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Quantum technologies

Nature Photonics 19, 811–812 (2025). https://doi.org/10.1038/s41566-025-01729-x

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Light-induced processes in atomic-scale systems

Nature Photonics 19, 813–814 (2025). https://doi.org/10.1038/s41566-025-01728-y

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Quantum optics and matter waves

Nature Photonics 19, 815–816 (2025). https://doi.org/10.1038/s41566-025-01727-z

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Photonics, nonlinear optics, and spectroscopy

Nature Photonics 19, 817–818 (2025). https://doi.org/10.1038/s41566-025-01726-0

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Quantum optics

Nature Photonics 19, 819–820 (2025). https://doi.org/10.1038/s41566-025-01725-1

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Perspective

Quantum optics and light

Nature Photonics 19, 821–822 (2025). https://doi.org/10.1038/s41566-025-01724-2

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Review Article

Quantum optics and light

Nature Photonics 19, 823–824 (2025). https://doi.org/10.1038/s41566-025-01723-3

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Quantum optics

Nature Photonics 19, 825–826 (2025). https://doi.org/10.1038/s41566-025-01722-4

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Quantum optics

Nature Photonics 19, 827–828 (2025). https://doi.org/10.1038/s41566-025-01721-5

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Quantum optics

Nature Photonics 19, 829–830 (2025). https://doi.org/10.1038/s41566-025-01720-6

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Quantum optics

Nature Photonics 19, 831–832 (2025). https://doi.org/10.1038/s41566-025-01719-z

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Quantum optics

Nature Photonics 19, 833–834 (2025). https://doi.org/10.1038/s41566-025-01718-0

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Quantum optics

Nature Photonics 19, 835–836 (2025). https://doi.org/10.1038/s41566-025-01717-1

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Quantum optics

Nature Photonics 19, 837–838 (2025). https://doi.org/10.1038/s41566-025-01716-2

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Quantum optics

Nature Photonics 19, 839–840 (2025). https://doi.org/10.1038/s41566-025-01715-3

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Quantum optics

Nature Photonics 19, 841–842 (2025). https://doi.org/10.1038/s41566-025-01714-4

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Quantum optics

Nature Photonics 19, 843–844 (2025). https://doi.org/10.1038/s41566-025-01713-5

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 845–846 (2025). https://doi.org/10.1038/s41566-025-01712-6

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Quantum optics

Nature Photonics 19, 847–848 (2025). https://doi.org/10.1038/s41566-025-01711-7

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Quantum optics

Nature Photonics 19, 849–850 (2025). https://doi.org/10.1038/s41566-025-01710-8

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Quantum optics

Nature Photonics 19, 851–852 (2025). https://doi.org/10.1038/s41566-025-01709-1

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Quantum optics

Nature Photonics 19, 853–854 (2025). https://doi.org/10.1038/s41566-025-01708-2

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 855–856 (2025). https://doi.org/10.1038/s41566-025-01707-3

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 857–858 (2025). https://doi.org/10.1038/s41566-025-01706-4

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Quantum optics

Nature Photonics 19, 859–860 (2025). https://doi.org/10.1038/s41566-025-01705-5

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 861–862 (2025). https://doi.org/10.1038/s41566-025-01704-6

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 863–864 (2025). https://doi.org/10.1038/s41566-025-01703-7

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 865–866 (2025). https://doi.org/10.1038/s41566-025-01702-8

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 867–868 (2025). https://doi.org/10.1038/s41566-025-01701-9

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Quantum optics

Nature Photonics 19, 869–870 (2025). https://doi.org/10.1038/s41566-025-01700-10

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Quantum optics

Nature Photonics 19, 871–872 (2025). https://doi.org/10.1038/s41566-025-01699-11

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Quantum optics

Nature Photonics 19, 873–874 (2025). https://doi.org/10.1038/s41566-025-01698-12

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 875–876 (2025). https://doi.org/10.1038/s41566-025-01697-13

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 877–878 (2025). https://doi.org/10.1038/s41566-025-01696-14

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 879–880 (2025). https://doi.org/10.1038/s41566-025-01695-15

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Quantum optics

Nature Photonics 19, 881–882 (2025). https://doi.org/10.1038/s41566-025-01694-16

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 883–884 (2025). https://doi.org/10.1038/s41566-025-01693-17

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 885–886 (2025). https://doi.org/10.1038/s41566-025-01692-18

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 887–888 (2025). https://doi.org/10.1038/s41566-025-01691-19

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 889–890 (2025). https://doi.org/10.1038/s41566-025-01690-20

Quantum optics and light are intrinsically connected through the quantum nature of light, which is fundamental to the field of quantum optics. This issue highlights the diverse and rapidly evolving research in quantum optics and light, showcasing advancements in quantum technologies, fundamental studies and innovative applications.

Quantum optics

Nature Photonics 19, 891–892 (2025). https://doi.org/10.1038/s41566-025-01689-21

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Quantum optics

Nature Photonics 19, 893–894 (2025). https://doi.org/10.1038/s41566-025-01688-22

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Quantum optics

Nature Photonics 19, 895–896 (2025). https://doi.org/10.1038/s41566-025-01687-23

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Quantum optics

Nature Photonics 19, 897–898 (2025). https://doi.org/10.1038/s41566-025-01686-24

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Quantum optics

Nature Photonics 19, 899–900 (2025). https://doi.org/10.1038/s41566-025-01685-25

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Quantum optics

Nature Photonics 19, 901–902 (2025). https://doi.org/10.1038/s41566-025-01684-26

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Quantum optics

Nature Photonics 19, 903–904 (2025). https://doi.org/10.1038/s41566-025-01683-27

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Quantum optics

Nature Photonics 19, 905–906 (2025). https://doi.org/10.1038/s41566-025-01682-28

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Quantum optics

Nature Photonics 19, 907–908 (2025). https://doi.org/10.1038/s41566-025-01681-29

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Quantum optics

Nature Photonics 19, 909–910 (2025). https://doi.org/10.1038/s41566-025-01680-30

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Quantum optics

Nature Photonics 19, 911–912 (2025). https://doi.org/10.1038/s41566-025-01679-31

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Quantum optics

Nature Photonics 19, 913–914 (2025). https://doi.org/10.1038/s41566-025-01678-32

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Quantum optics

Nature Photonics 19, 915–916 (2025). https://doi.org/10.1038/s41566-025-01677-33

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Quantum optics

Nature Photonics 19, 917–918 (2025). https://doi.org/10.1038/s41566-025-01676-34

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Quantum optics

Nature Photonics 19, 919–920 (2025). https://doi.org/10.1038/s41566-025-01675-35

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Quantum optics

Nature Photonics 19, 921–922 (2025). https://doi.org/10.1038/s41566-025-01674-36

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Quantum optics

Nature Photonics 19, 923–924 (2025). https://doi.org/10.1038/s41566-025-01673-37

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Quantum optics

Nature Photonics 19, 925–926 (2025). https://doi.org/10.1038/s41566-025-01672-38

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Quantum optics

Nature Photonics 19, 927–928 (2025). https://doi.org/10.1038/s41566-025-01671-39

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Quantum optics

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Quantum optics

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Quantum optics

Nature Photonics 19, 933–934 (2025). https://doi.org/10.1038/s41566-025-01668-42

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Quantum optics

Nature Photonics 19, 935–936 (2025). https://doi.org/10.1038/s41566-025-01667-43

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Quantum optics

Nature Photonics 19, 937–938 (2025). https://doi.org/10.1038/s41566-025-01666-44

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Quantum optics

Nature Photonics 19, 939–940 (2025). https://doi.org/10.1038/s41566-025-01665-45

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Quantum optics

Nature Photonics 19, 941–942 (2025). https://doi.org/10.1038/s41566-025-01664-46

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Quantum optics

Nature Photonics 19, 943–944 (2025). https://doi.org/10.1038/s41566-025-01663-47

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Quantum optics

Nature Photonics 19, 945–946 (2025). https://doi.org/10.1038/s41566-025-01662-48

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Quantum optics

Nature Photonics 19, 947–948 (2025). https://doi.org/10.1038/s41566-025-01661-49

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Quantum optics

Nature Photonics 19, 949–950 (2025). https://doi.org/10.1038/s41566-025-01660-50

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Quantum optics

Nature Photonics 19, 951–952 (2025). https://doi.org/10.1038/s41566-025-01659-51

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Quantum optics

Nature Photonics 19, 953–954 (2025). https://doi.org/10.1038/s41566-025-01658-52

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Quantum optics

Nature Photonics 19, 955–956 (2025). https://doi.org/10.1038/s41566-025-01657-53

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Quantum optics

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Quantum optics

Nature Photonics 19, 959–960 (2025). https://doi.org/10.1038/s41566-025-01655-55

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Quantum optics

Nature Photonics 19, 961–962 (2025). https://doi.org/10.1038/s41566-025-01654-56

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Quantum optics

Nature Photonics 19, 963–964 (2025). https://doi.org/10.1038/s41566-025-01653-57

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Quantum optics

Nature Photonics 19, 965–966 (2025). https://doi.org/10.1038/s41566-025-01652-58

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Quantum optics

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Quantum optics

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Quantum optics

Nature Photonics 19, 971–972 (2025). https://doi.org/10.1038/s41566-025-01649-61

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Quantum optics

Nature Photonics 19, 973–974 (2025). https://doi.org/10.1038/s41566-025-01648-62

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Quantum optics

Nature Photonics 19, 975–976 (2025). https://doi.org/10.1038/s41566-025-01647-63

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Quantum optics

Nature Photonics 19, 977–978 (2025). https://doi.org/10.1038/s41566-025-01646-64

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Quantum optics

Nature Photonics 19, 979–980 (2025). https://doi.org/10.1038/s41566-025-01645-65

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Quantum optics

Nature Photonics 19, 981–982 (2025). https://doi.org/10.1038/s41566-025-01644-66

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Quantum optics

Nature Photonics 19, 983–984 (2025). https://doi.org/10.1038/s41566-025-01643-67

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Quantum optics

Nature Photonics 19, 985–986 (2025). https://doi.org/10.1038/s41566-025-01642-68

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Quantum optics

Nature Photonics 19, 987–988 (2025). https://doi.org/10.1038/s41566-025-01641-69

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Quantum optics

Nature Photonics 19, 989–990 (2025). https://doi.org/10.1038/s41566-025-01640-70

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Quantum optics

Nature Photonics 19, 991–992 (2025). https://doi.org/10.1038/s41566-025-01639-71

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Quantum optics

Nature Photonics 19, 993–994 (2025). https://doi.org/10.1038/s41566-025-01638-72

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Quantum optics

Nature Photonics 19, 995–996 (2025). https://doi.org/10.1038/s41566-025-01637-73

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Quantum optics

Nature Photonics 19, 997–998 (2025). https://doi.org/10.1038/s41566-025-01636-74

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Quantum optics

Nature Photonics 19, 999–1000 (2025). https://doi.org/10.1038/s41566-025-01635-75

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Quantum optics

Nature Photonics 19, 1001–1002 (2025). https://doi.org/10.1038/s41566-025-01634-76

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Quantum optics

Nature Photonics 19, 1003–1004 (2025). https://doi.org/10.1038/s41566-025-01633-77

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Quantum optics

Nature Photonics 19, 1005–1006 (2025). https://doi.org/10.1038/s41566-025-01632-78

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Quantum optics

Nature Photonics 19, 1007–1008 (2025). https://doi.org/10.1038/s41566-025-01631-79

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Quantum optics

Nature Photonics 19, 1009–1010 (2025). https://doi.org/10.1038/s41566-025-01630-80

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Quantum optics

Nature Photonics 19, 1011–1012 (2025). https://doi.org/10.1038/s41566-025-01629-81

Quantum optics