Summary

- >170 publications, thereof
  39 Nature/Science. 76 Physical Review Letters/Nature Physics/Physical Review X

- **Citation Metrics:**
  Google Scholar citations: (total) > 63,800, h-index: 103
  Publons (formerly ISI WoS): (total) > 39,500, h-index: 86
  average citations per article > 219
List of Publications

173 D. Wei, A. Rubio Abadal, B. Ye, F. Machado, J. Kemp, K. Srakaew, S. Hollerith, J. Rui, S. Gopalakrishnan, N. Y. Yao, I. Bloch, J. Zeiher
Quantum gas microscopy of Kardar-Parisi-Zhang superdiffusion
Science 376 (6594), pp. 716 - 720 (2022)

172 X. Chen, M. Duda, A. Schindewolf, R. Bause, I. Bloch, X. Luo
Suppression of Unitary Three-body Loss in a Degenerate Bose-Fermi Mixture
Physical Review Letters 128 (15), 153401 (2022)

171 T. Klostermann, C. R. Cabrera, H. von Raven, J. F. Wienand, C. Schweizer, I. Bloch, M. Aidelsburger
Fast long-distance transport of cold cesium atoms
Physical Review A 105 (4), 043319 (2022)

170 S. Hollerith, K. Srakaew, D. Wei, A. Rubio Abadal, D. Adler, P. Weckesser, A. Kruckenhauser, V. Walther, R. van Bijnen, J. Rui, C. Gross, I. Bloch, J. Zeiher
Realizing distance-selective interactions in a Rydberg-dressed atom array
Physical Review Letters 128 (11), 113602 (2022)

169 A. Bohrdt; L. Homeier, I. Bloch, E. A. Demler, F. Grusdt
Strong pairing in mixed-dimensional bilayer antiferromagnetic Mott insulators
Nature Physics 18, pp. 651 - 656 (2022)

168 B. H. Madhusudhana, S. Scherg, T. Kohlert, I. Bloch, M. Aidelsburger
Benchmarking a Novel Efficient Numerical Method for Localized 1D Fermi-Hubbard Systems on a Quantum Simulator
PRX Quantum 2, 040325 (2021)

167 R. Bause, A. Kamijo, X. Chen, M. Duda, A. Schindewolf, I. Bloch, X. Luo
Efficient conversion of closed-channel-dominated Feshbach molecules of 23Na40K to their absolute ground state
Physical Review A 104 (4), 043321 (2021)

166 S. Scherg, T. Kohlert, P. Sala, F. Pollmann, B. H. Madhusudhana, I. Bloch, M. Aidelsburger
Observing non-ergodicity due to kinetic constraints in tilted Fermi-Hubbard chains
Nature Communications 12 (1), 4490 (2021)

165 R. Bause, A. Schindewolf, R. Tao, M. Duda, X. Chen, G. Quemener, T. Karman, A. Christianen, I. Bloch, X. Luo
Collisions of ultracold molecules in bright and dark optical dipole traps
Physical Review Research 3 (3), 033013 (2021)

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Microscopic electronic structure tomography of Rydberg macrodimers
Physical Review Research 3 (1), 013252 (2021)

163 A. Heinz, J. Trautmann, N. Santic, A. J. Park, I. Bloch, S. Blatt
Crossed optical cavities with large mode diameters
Optics Letters 46 (2), pp. 250 - 253 (2021)

162 J. Rui, D. Wei, A. Rubio-Abadal, S. Hollerith, J. Zeiher, D.M. Stamper-Kurn, C. Gross, I. Bloch
A subradiant optical mirror formed by a single structured atomic layer
Nature 583 (7816), pp. 369 - 374 (2020)
A. Rubio-Abadal, N. Ippoliti, S. Hollerith, D. Wei, J. Rui, S.L. Sondhi, V. Khemani, C. Gross, I. Bloch

Floquet prethermalization in a Bose-Hubbard system
Physical Review X 10 (2), 021044 (2020)

J. Koepsell, S. Hirthe, D. Bourgund, P. Sompet, J. Vijayan, G. Salomon, C. Gross, I. Bloch

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K. Wintersperger, C. Braun, F. Nur Ünal, A. Eckardt, M. Di Liberti, N. Goldman, I. Bloch, M. Aidelsburger

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T. Kohlert, S. Scherg, X. Li, H. P. Lüschen, S. Das Sarma, I. Bloch, M. Aidelsburger
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Prof. Dr. Immanuel Felix Bloch
Ludwig-Maximilians-Universität München & Max-Planck-Institut für Quantenoptik
July 2022
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