



# DEPARTMENT OF PHYSICS

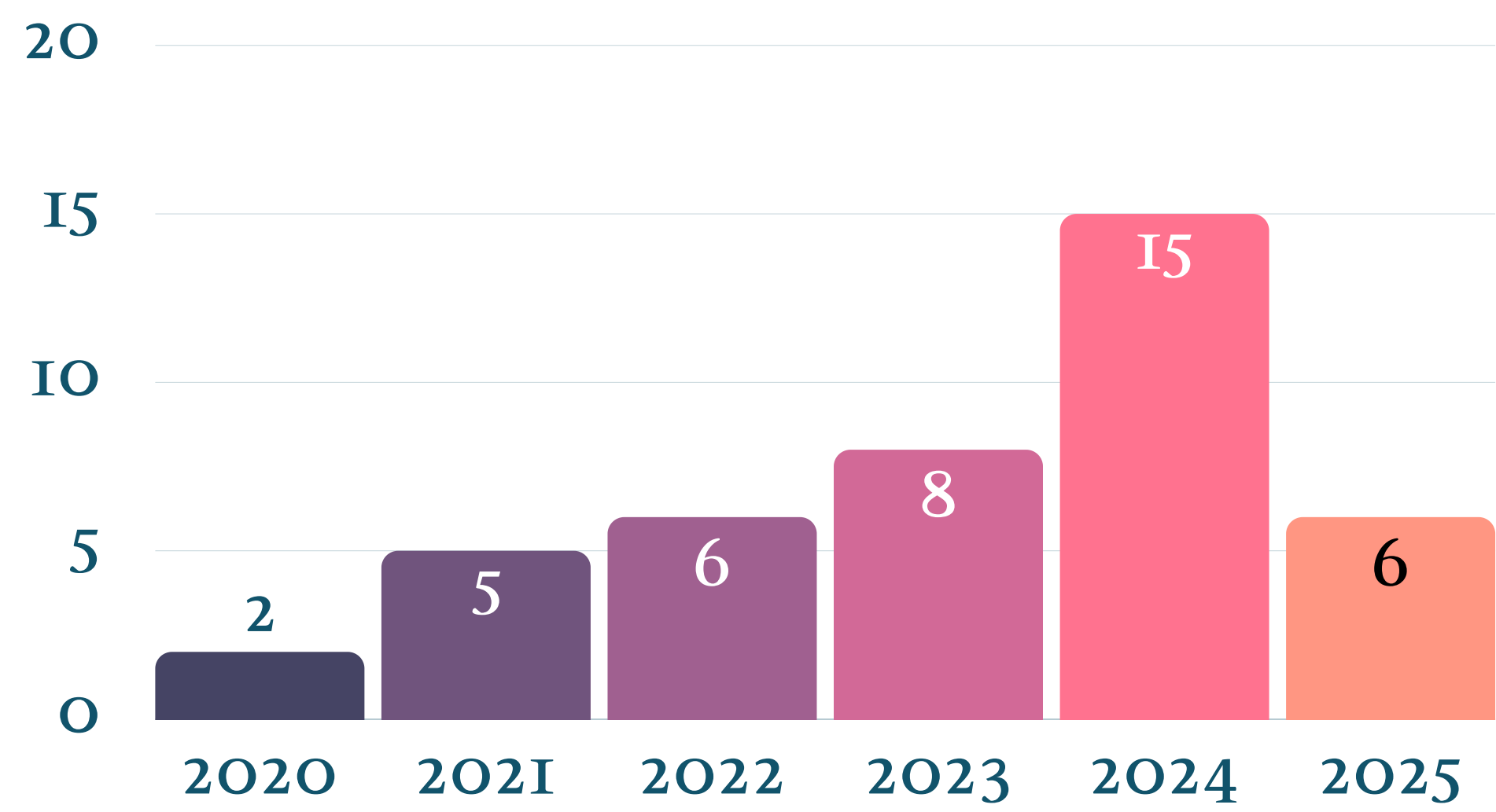
(DST-FIST ASSISTED)  
UNIVERSITY OF KASHMIR



## RESEARCH PROFILE

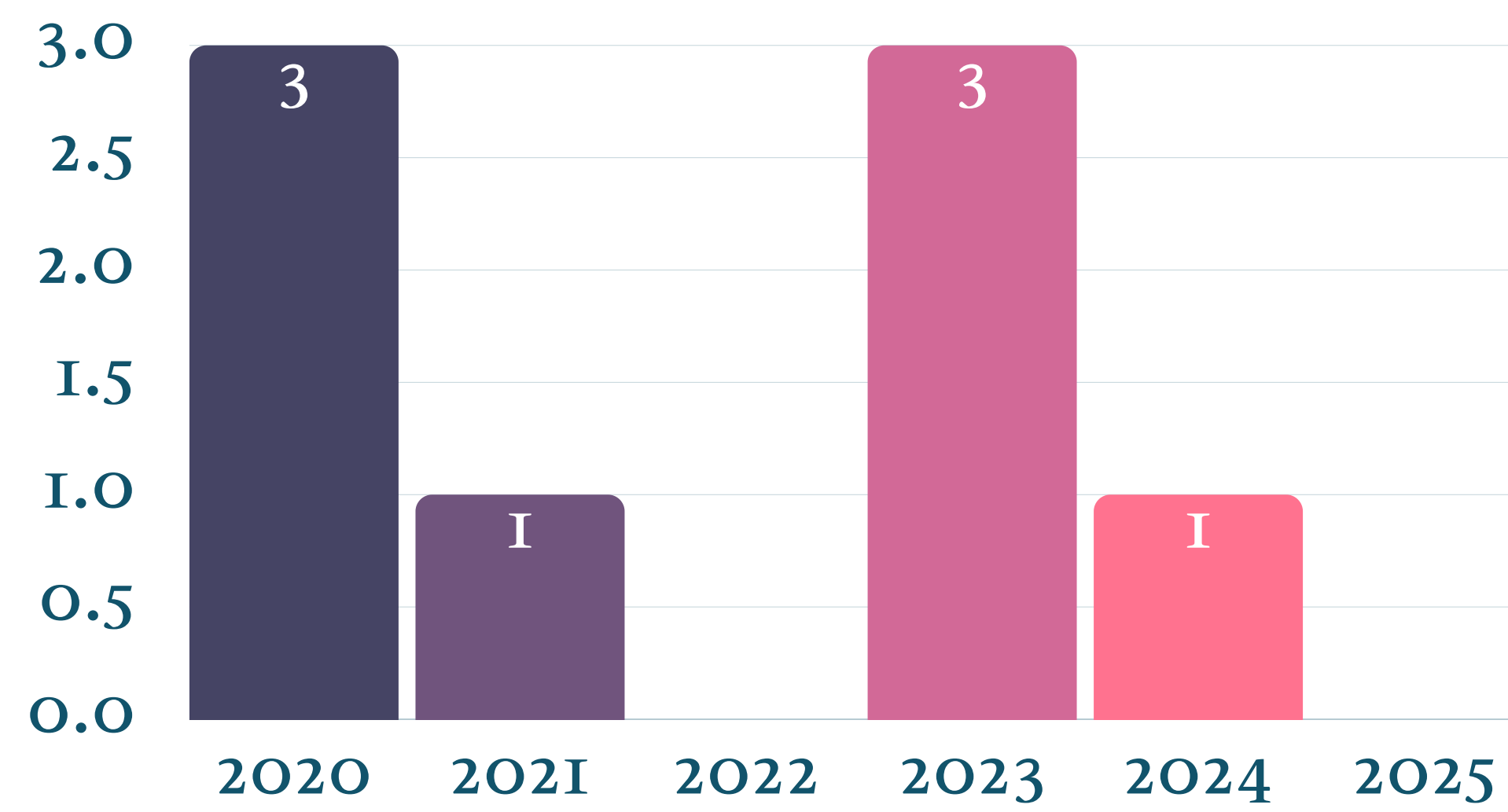
(2020 - 2025)

### Solid State Physics



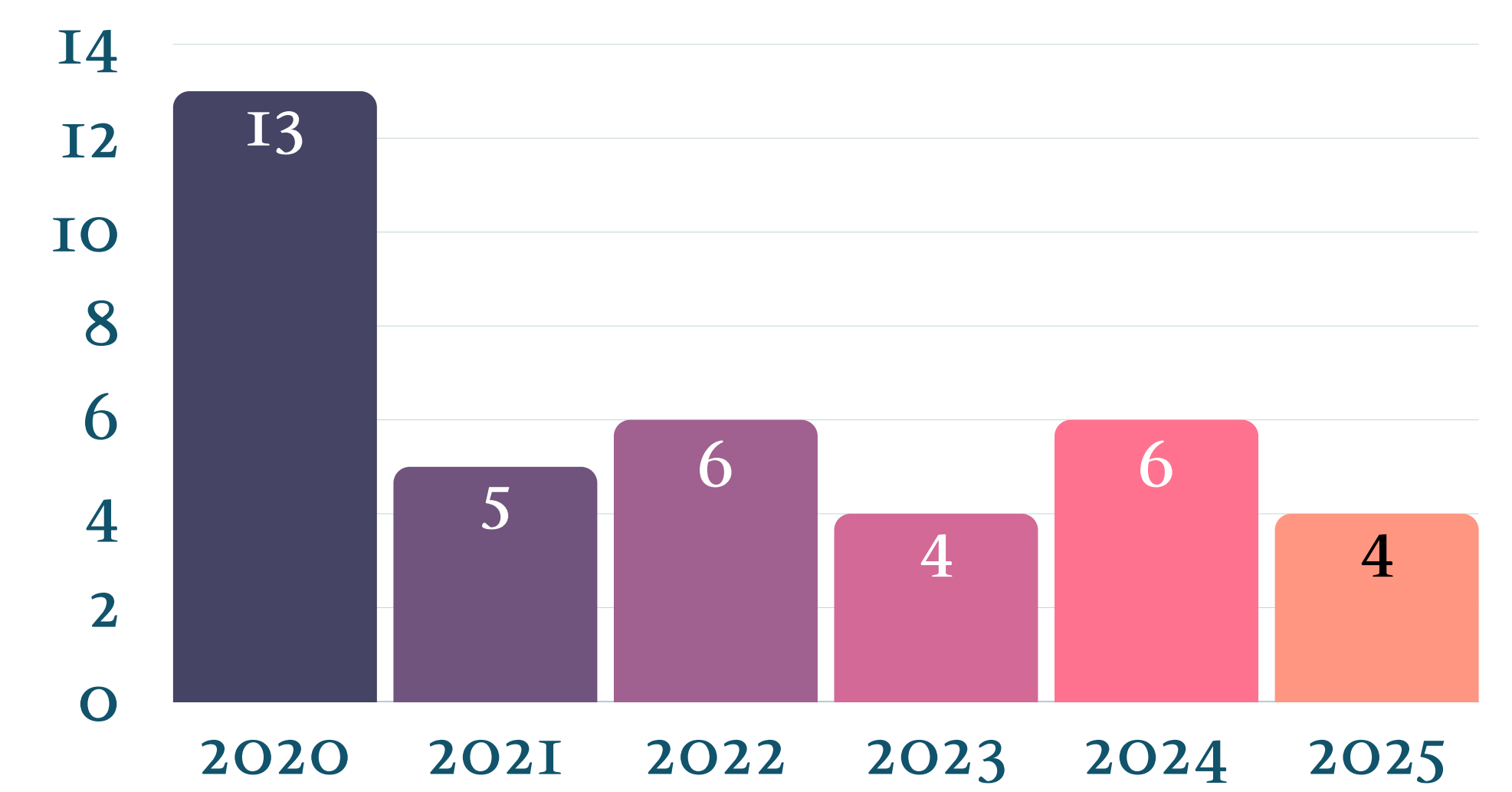
Highest IF: 8.9  
Total Publications: 42

### Radiation Physics



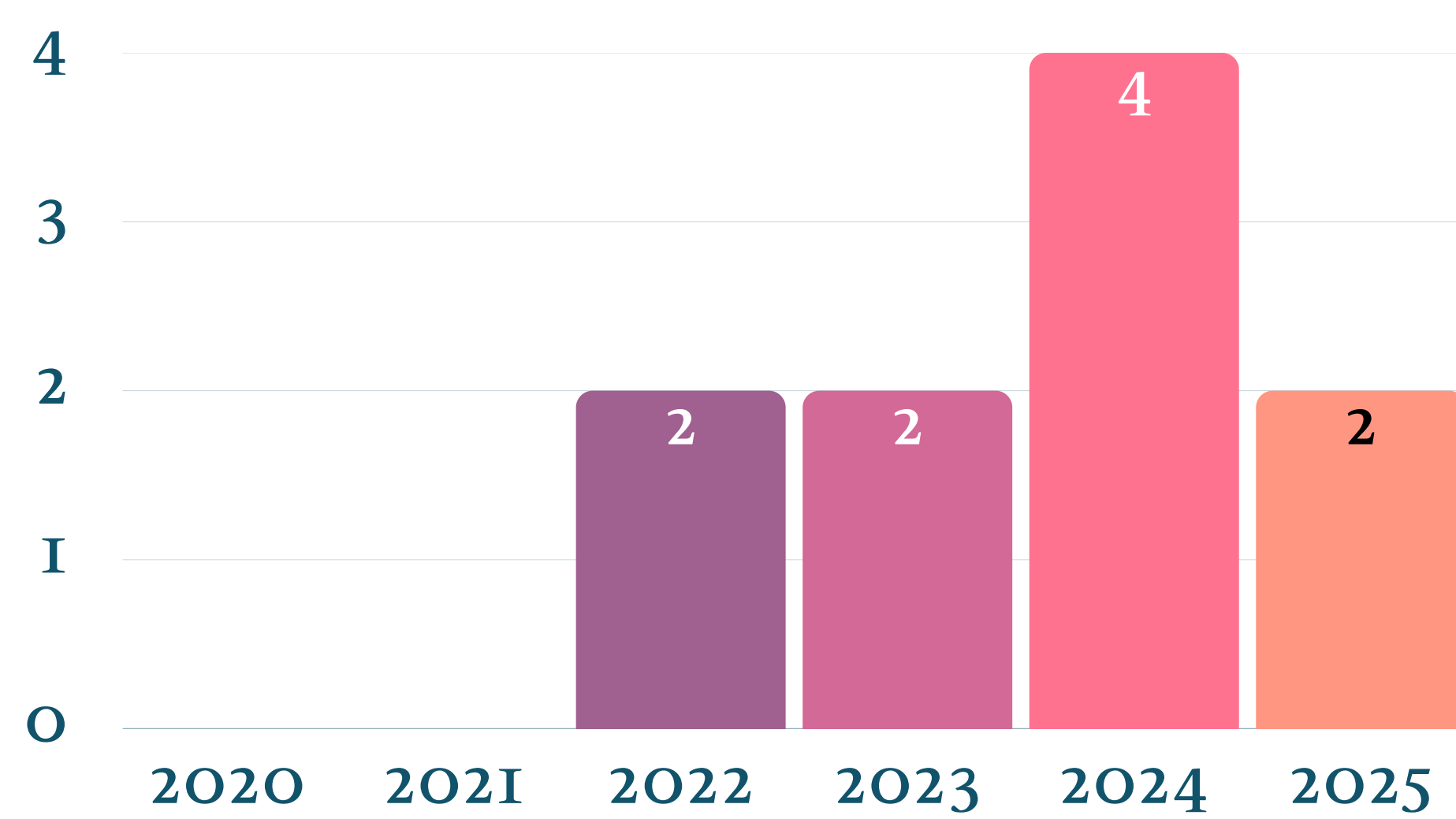
Highest IF: 4.0  
Total Publications: 8

### Nano Physics Lab



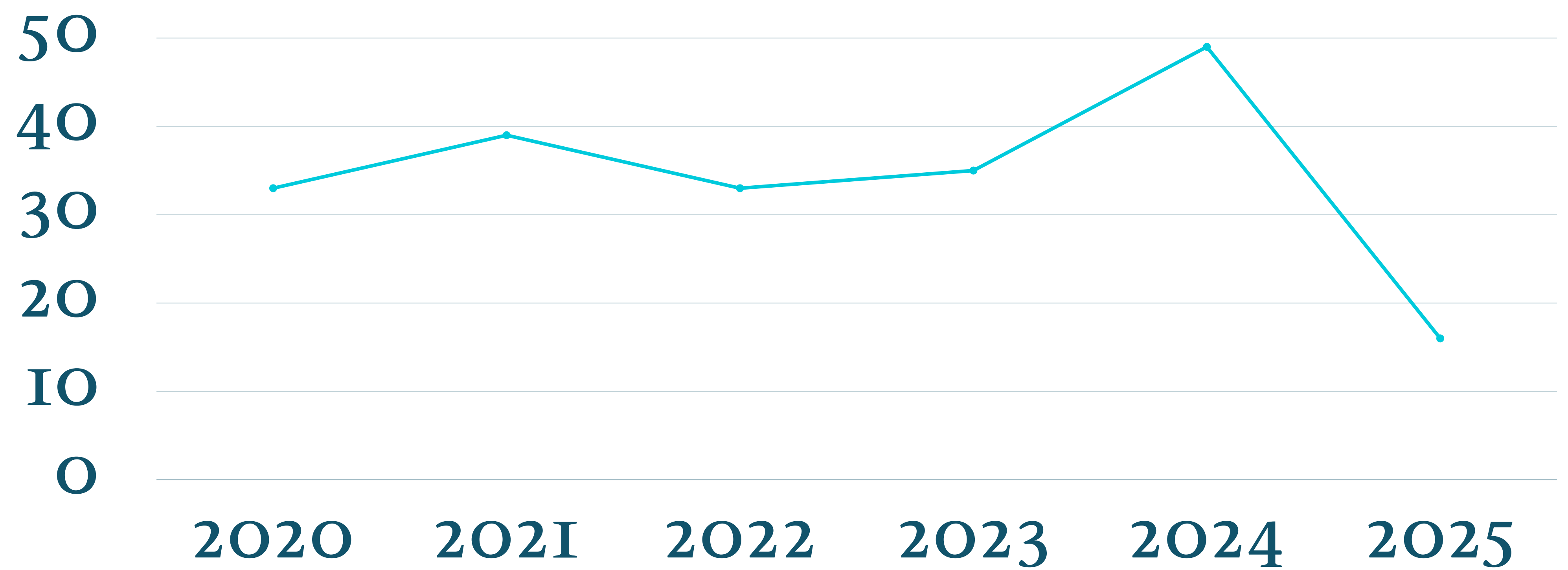
Highest IF: 8.9  
Total Publications: 38

### Quantum Dynamics Lab

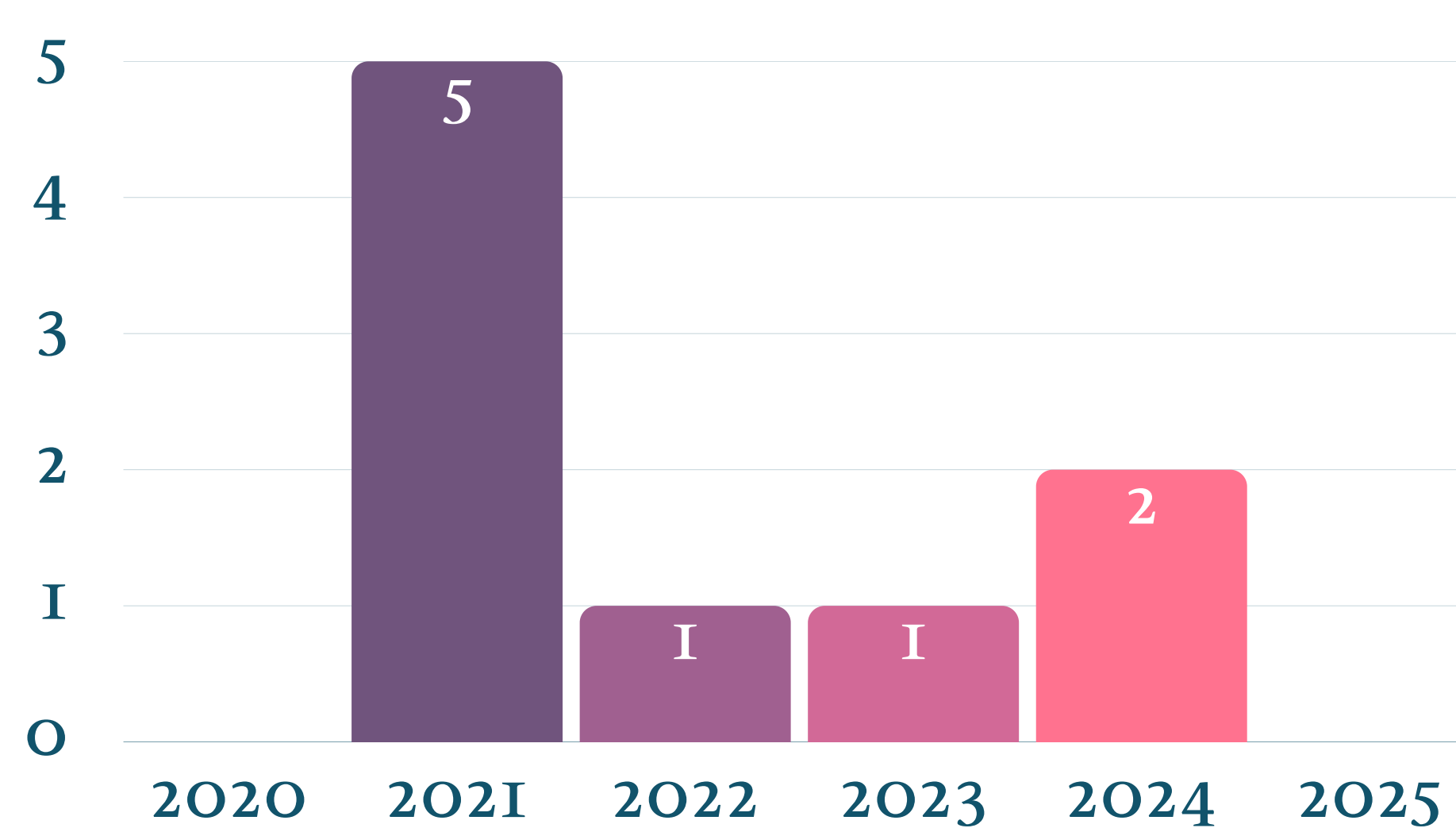


Highest IF: 3.0  
Total Publications: 10

### Department Research Growth



### Atmospheric Physics

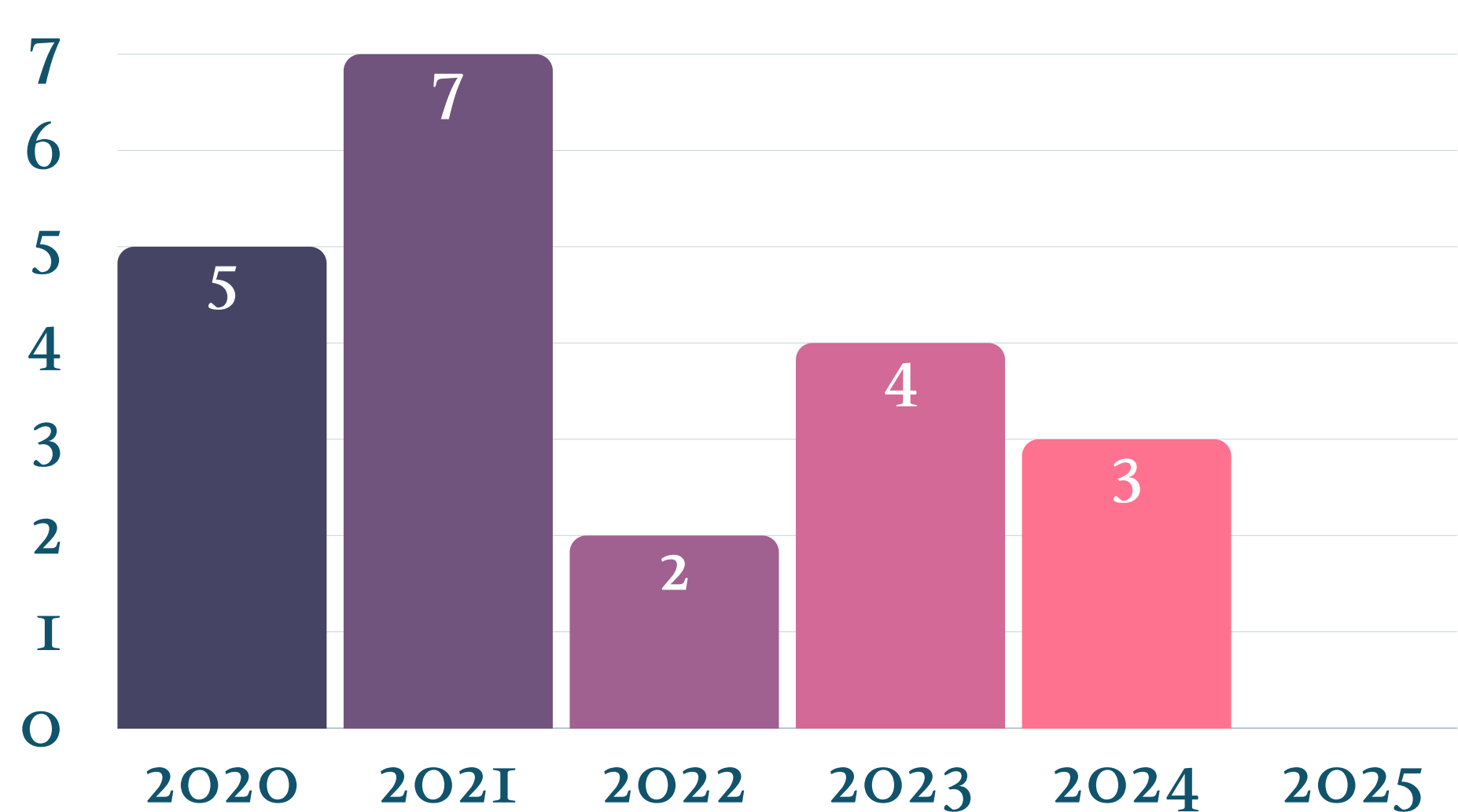


Highest IF: 4.9  
Total Publications: 9

### Recent Publications

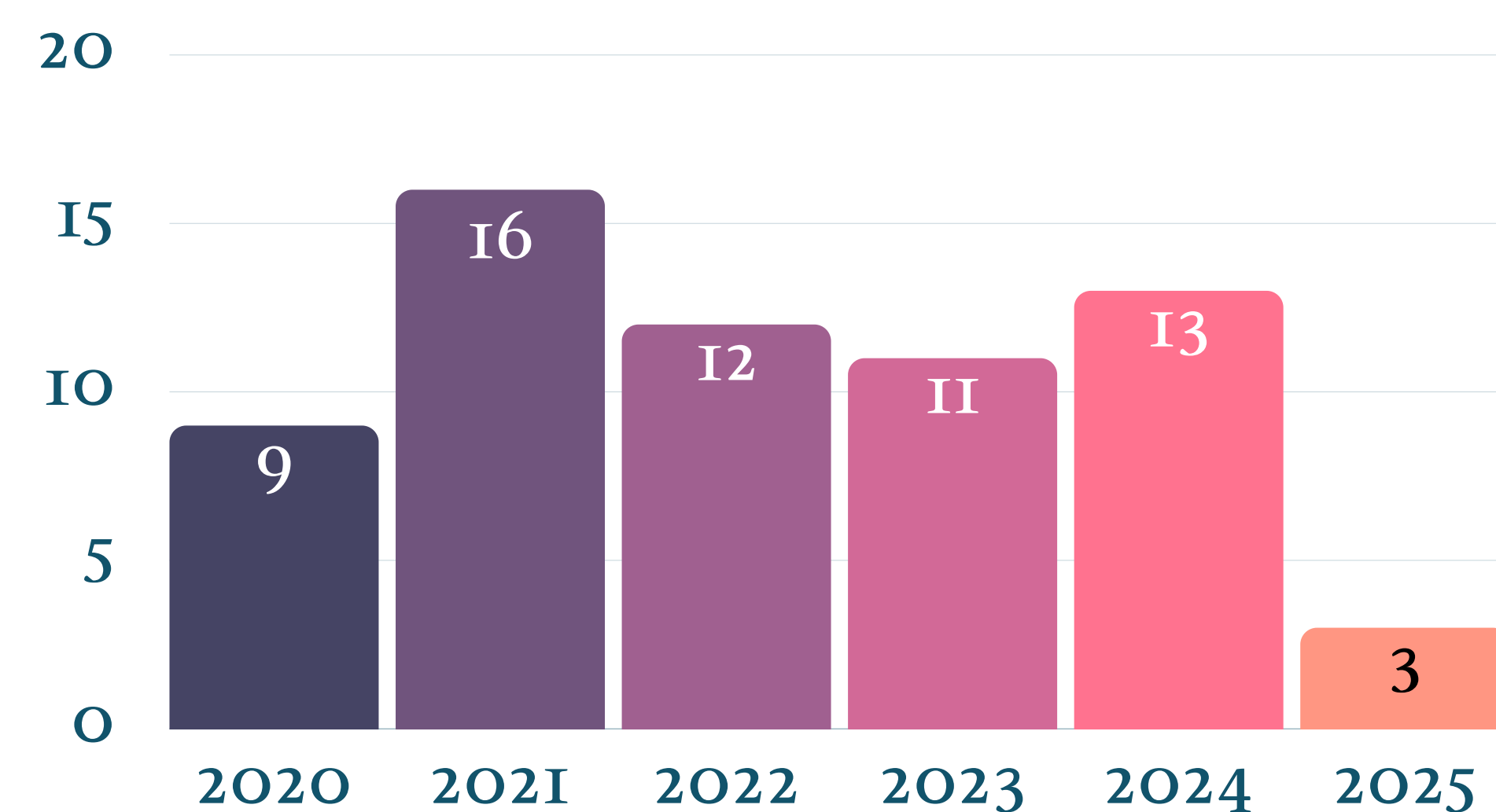
Title	Lab	Journal	IF
Enhanced electrochemical performance of MoS <sub>2</sub> @CdSe@GO ternary heterostructures for asymmetric supercapacitors	Nanophysics	Journal of Energy Storage	8.9
Probing spectral evolution and intrinsic variability of Mkn 421: A multi-epoch AstroSat study of X-ray spectra	Astrophysics	JHEAP	10.2
Dephasing effects on the low-energy dynamics of Phi 4 model	Quantum Dynamics	International Journal of Modern Physics B	2.6
Airglow-imager based observation of possible influences of subtropical mesospheric gravity waves on F-region ionosphere over Jammu & Kashmir, India	Atmospheric Physics	Scientific Reports	4.9
Increasing octupole collectively across the Z=64 isotopic chain: B(E3) values in 150 Gd	Nuclear Physics	Physics Review Letters	8.1
Radiological assessment of Radon in ground water of the northernmost Kashmir Basin, Northwestern Himalaya	Radiation Physics	Environment Geochemistry and Health	4.0
Effect of Aluminium (Al)-doping on electrochemical performance of hydrothermally synthesized hematite (α-Fe <sub>2</sub> O <sub>3</sub> ) nanospheres for supercapacitor applications.	Solid State Physics	Journal of Energy Storage	8.9
TMD evolution effect on cos 2 φ azimuthal asymmetry in a back-to-back production of J / ψ and a jet at the EIC	High Energy Physics	Physical Review D	5.0

### High Energy Physics



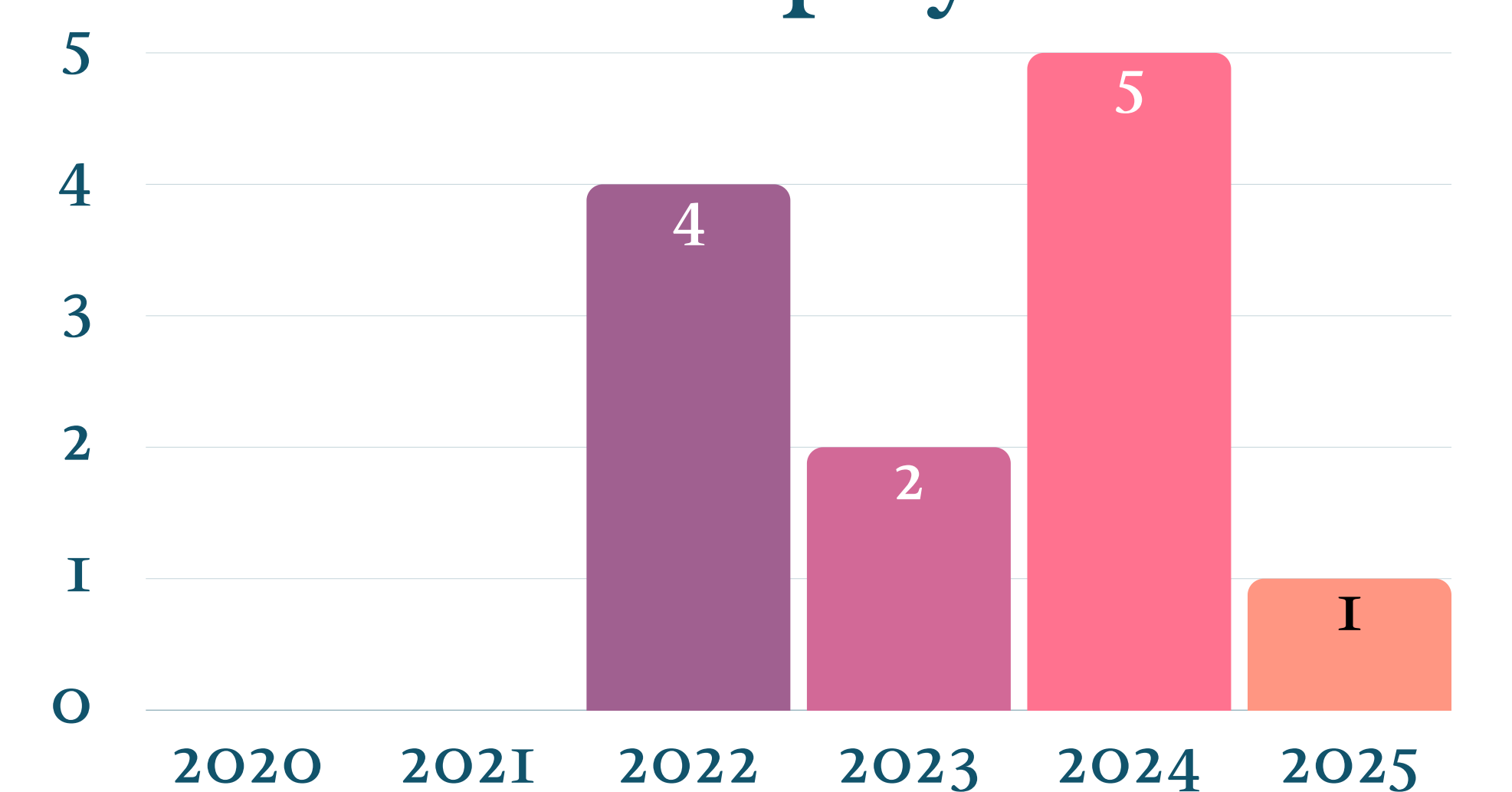
Highest IF: 5.0  
Total Publications: 21

### Nuclear Physics



Highest IF: 8.1  
Total Publications: 64

### Astrophysics



Highest IF: 10.2  
Total Publications: 12