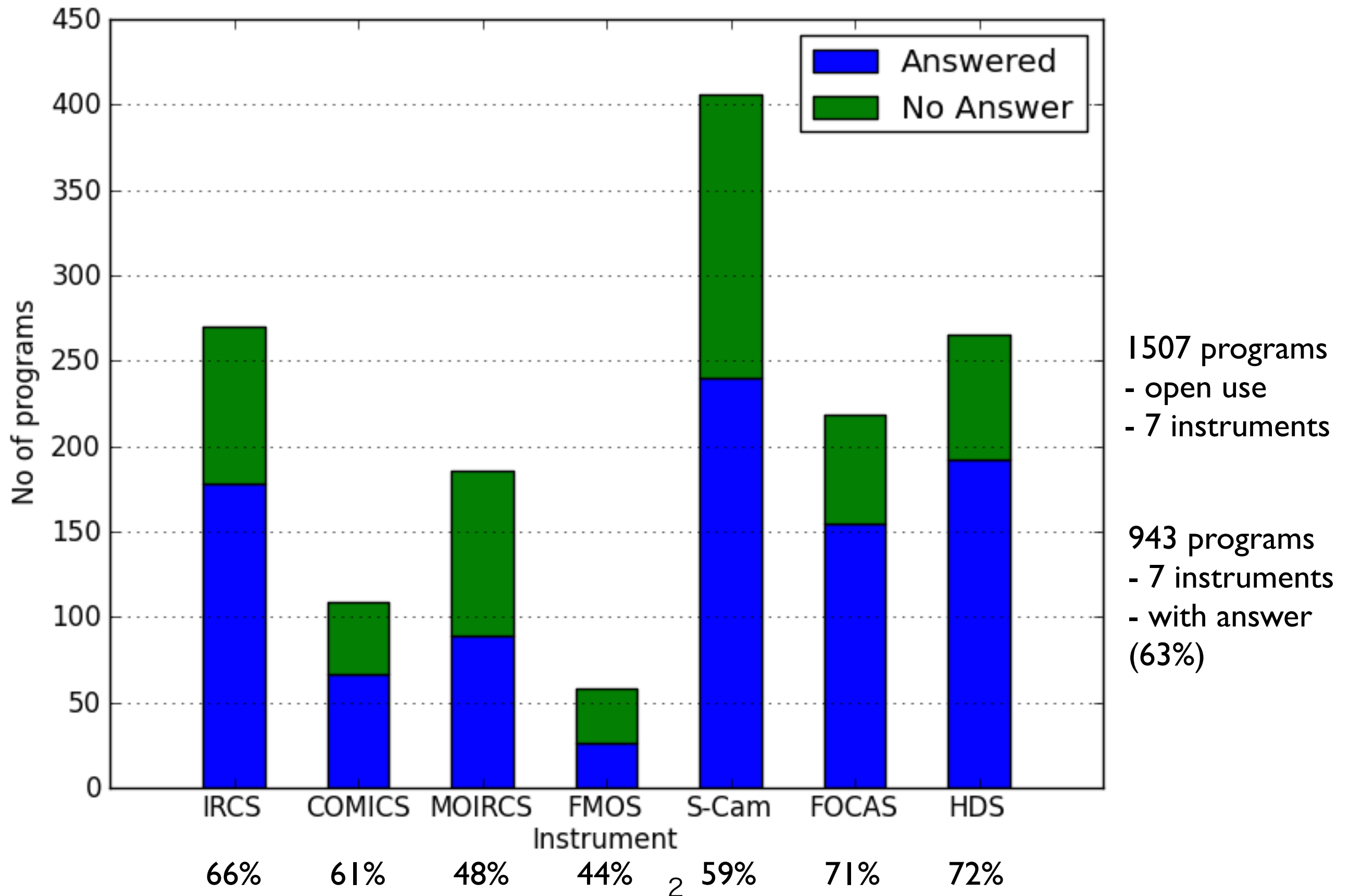


# Output from each Subaru instrument

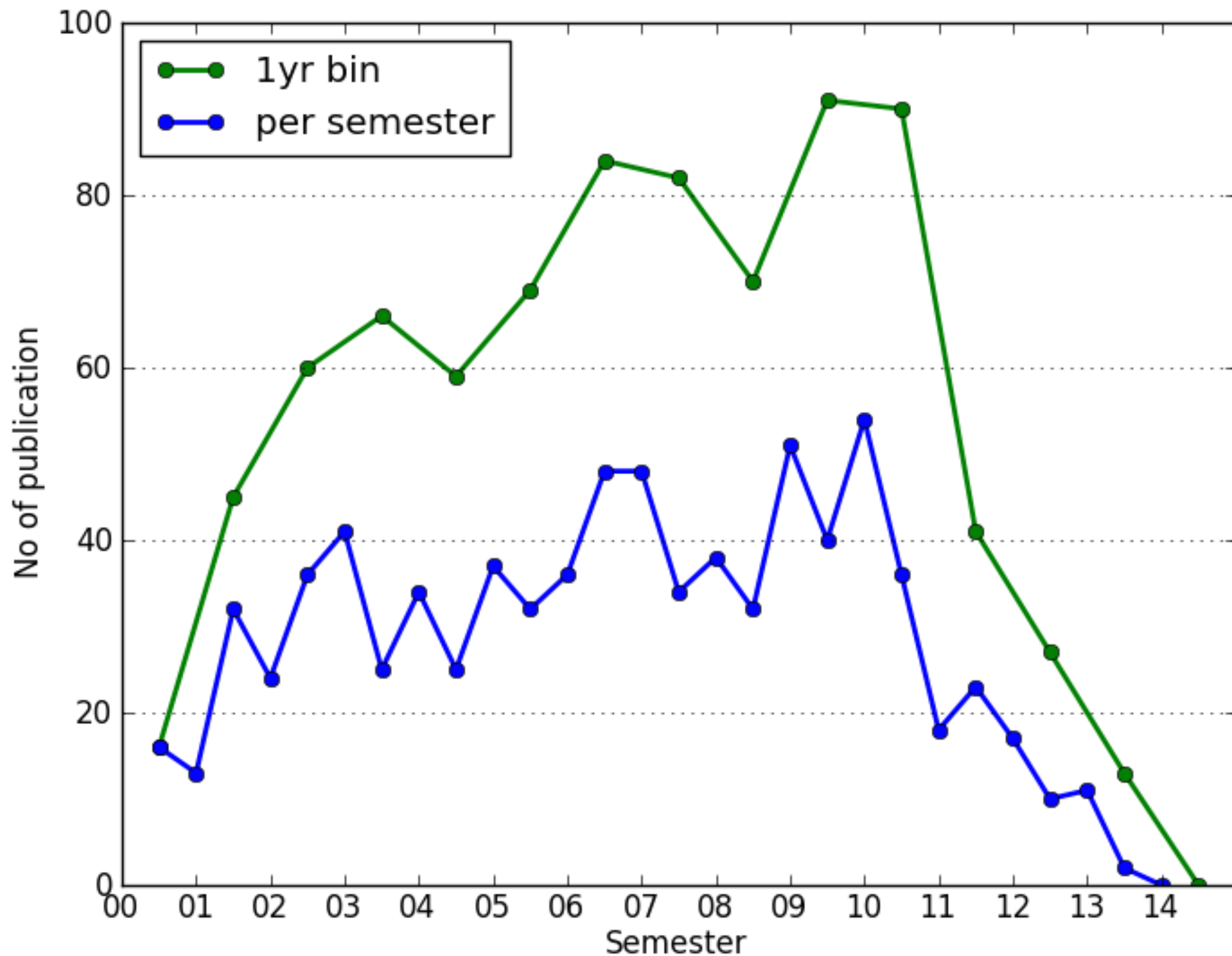
## - Analysis of Subaru publication survey -

Masaomi Tanaka  
2014/11/26  
updated 2014/12/04  
updated 2015/01/03

# No of programs



# No of publication



838 programs  
- open use  
- 7 instruments  
- with answer  
- with data

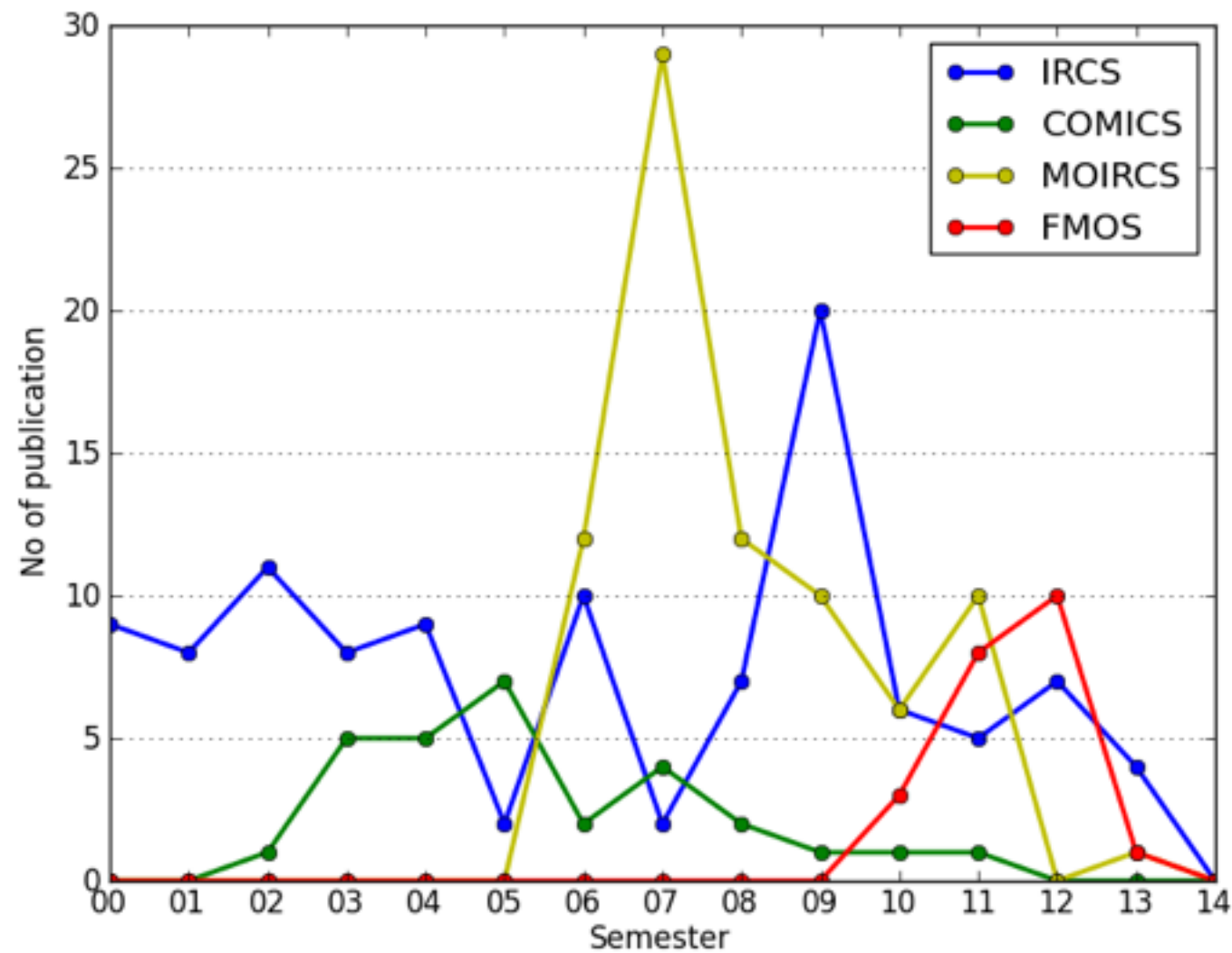
105 programs  
- with no data

813 publication  
(with duplication)

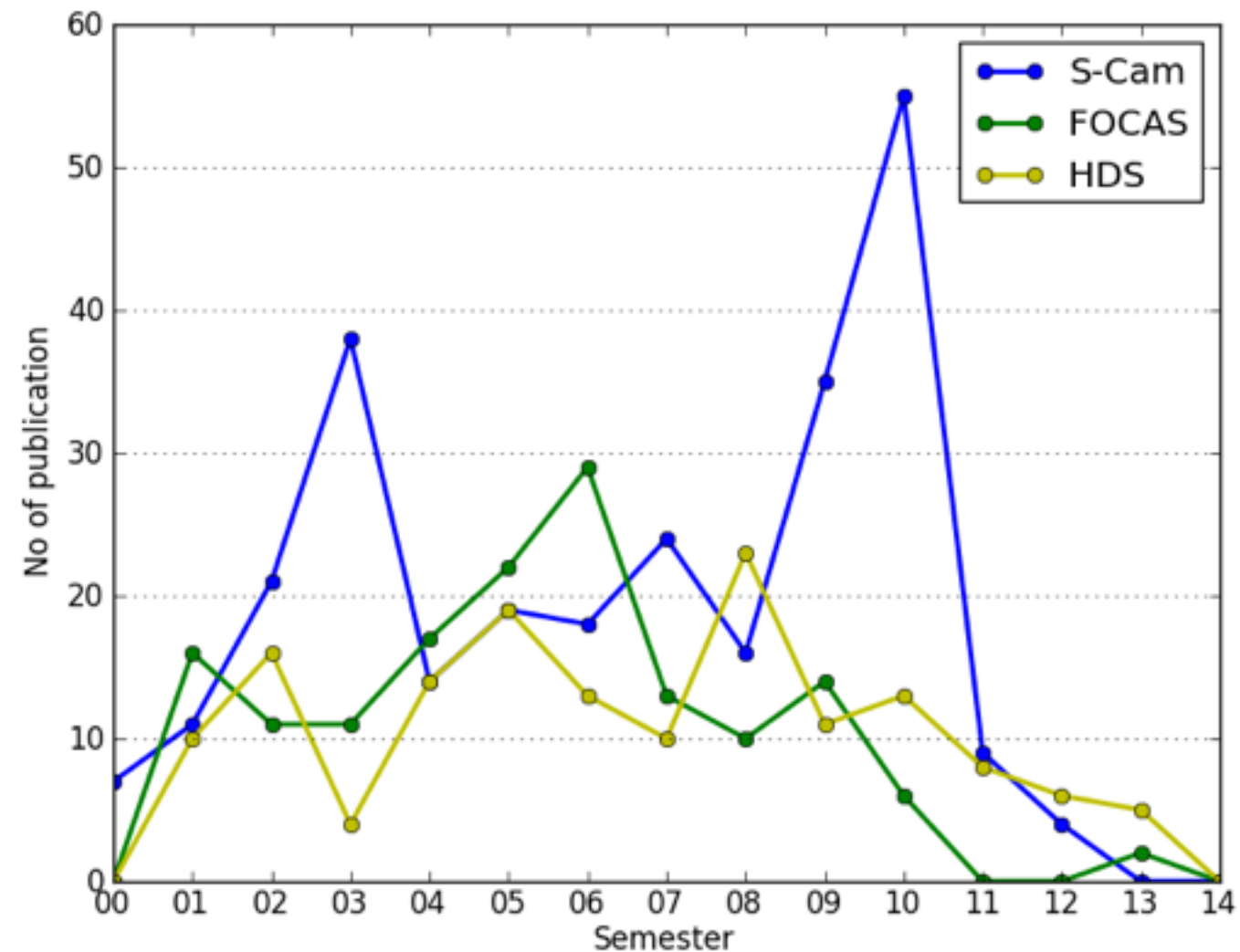
524 publication  
(without duplication)

# No of publication for each instrument (w/ duplication)

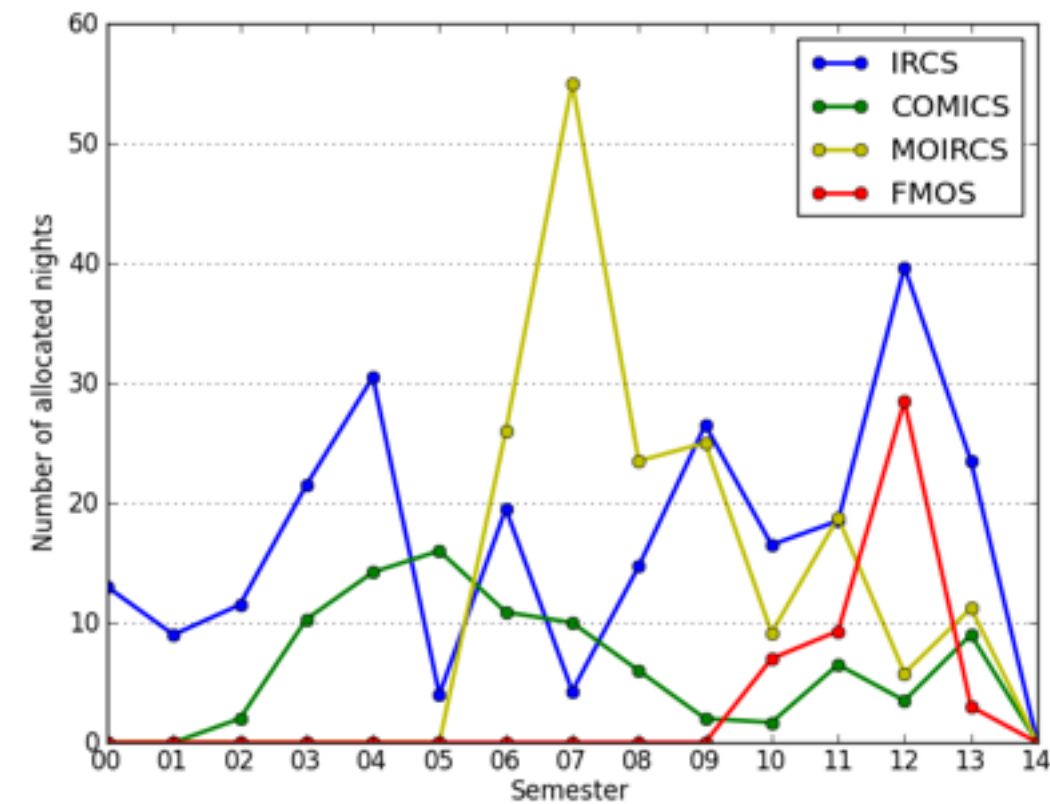
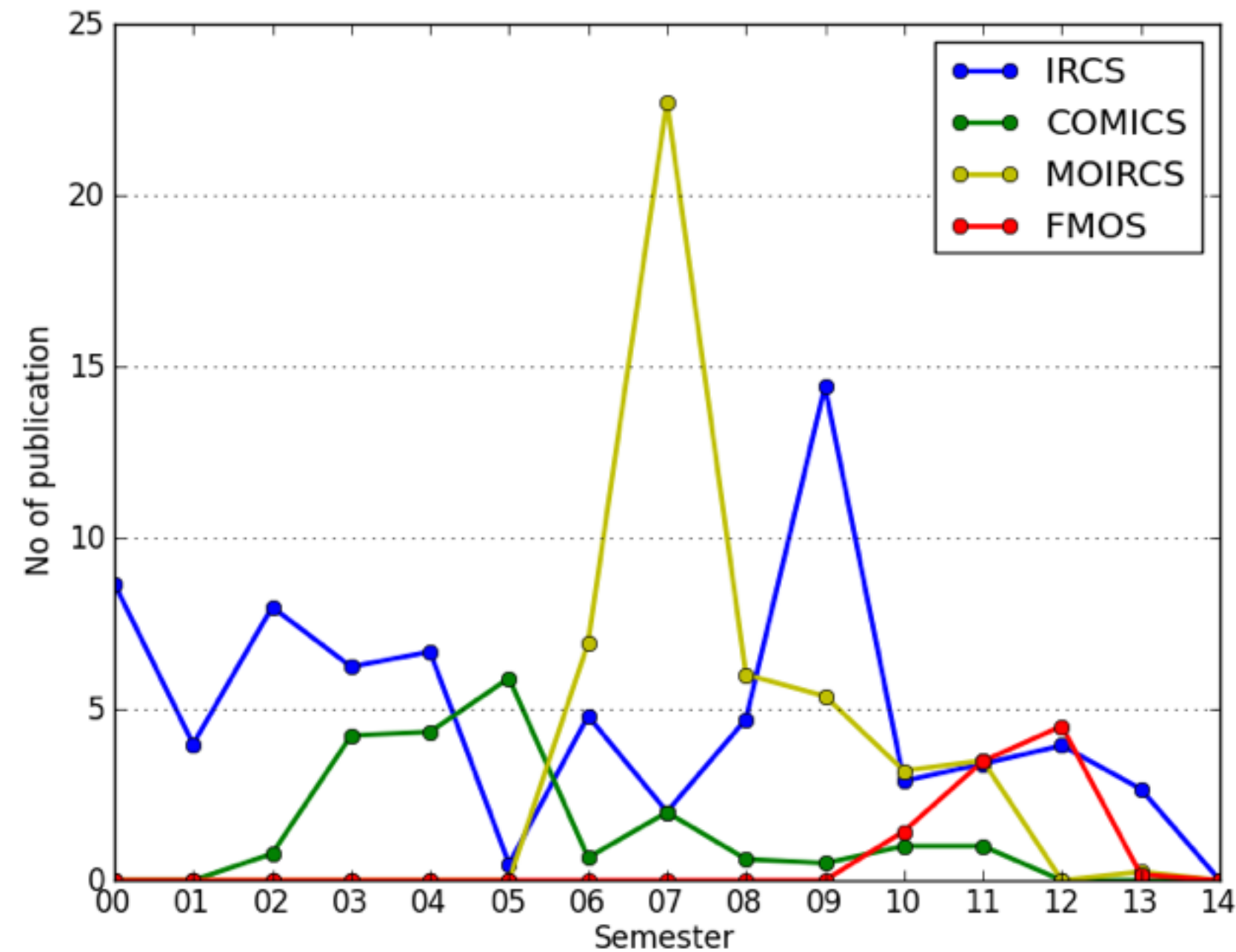
## IR



## Opt

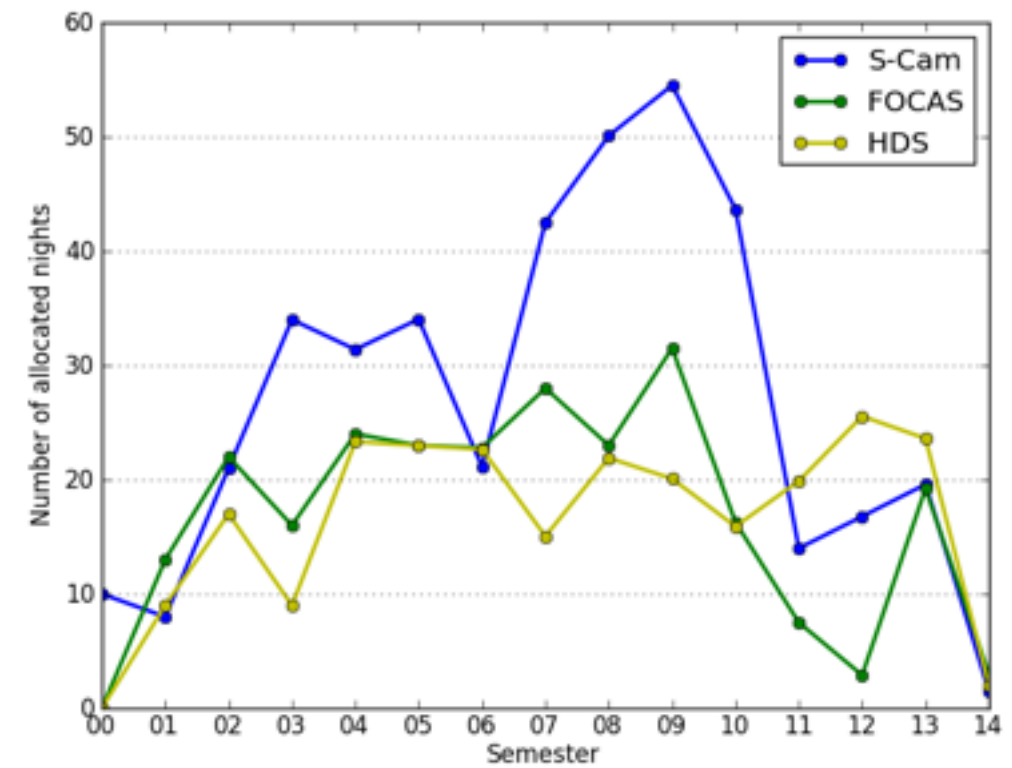
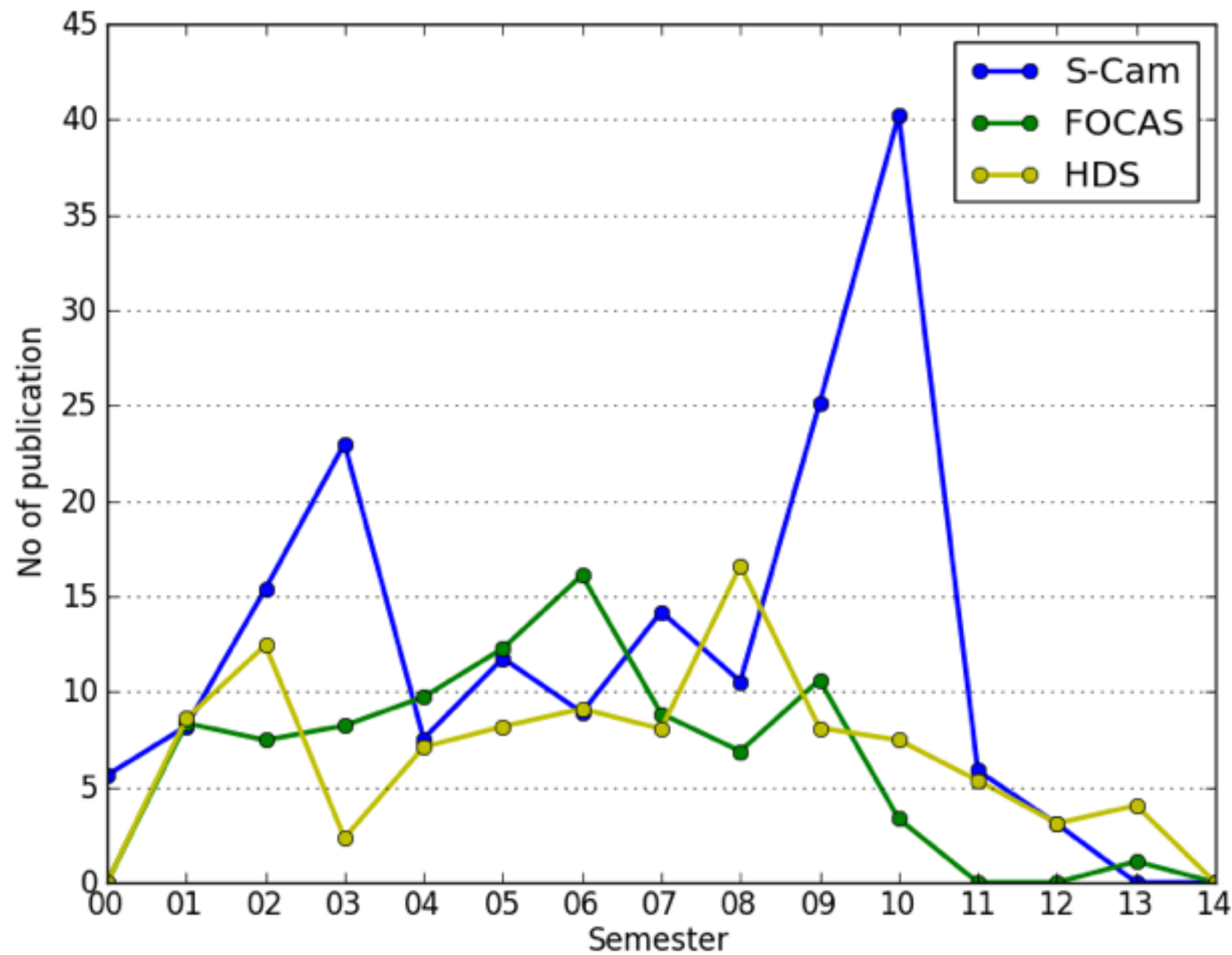


# No of publication: IR instruments (w/o duplication)



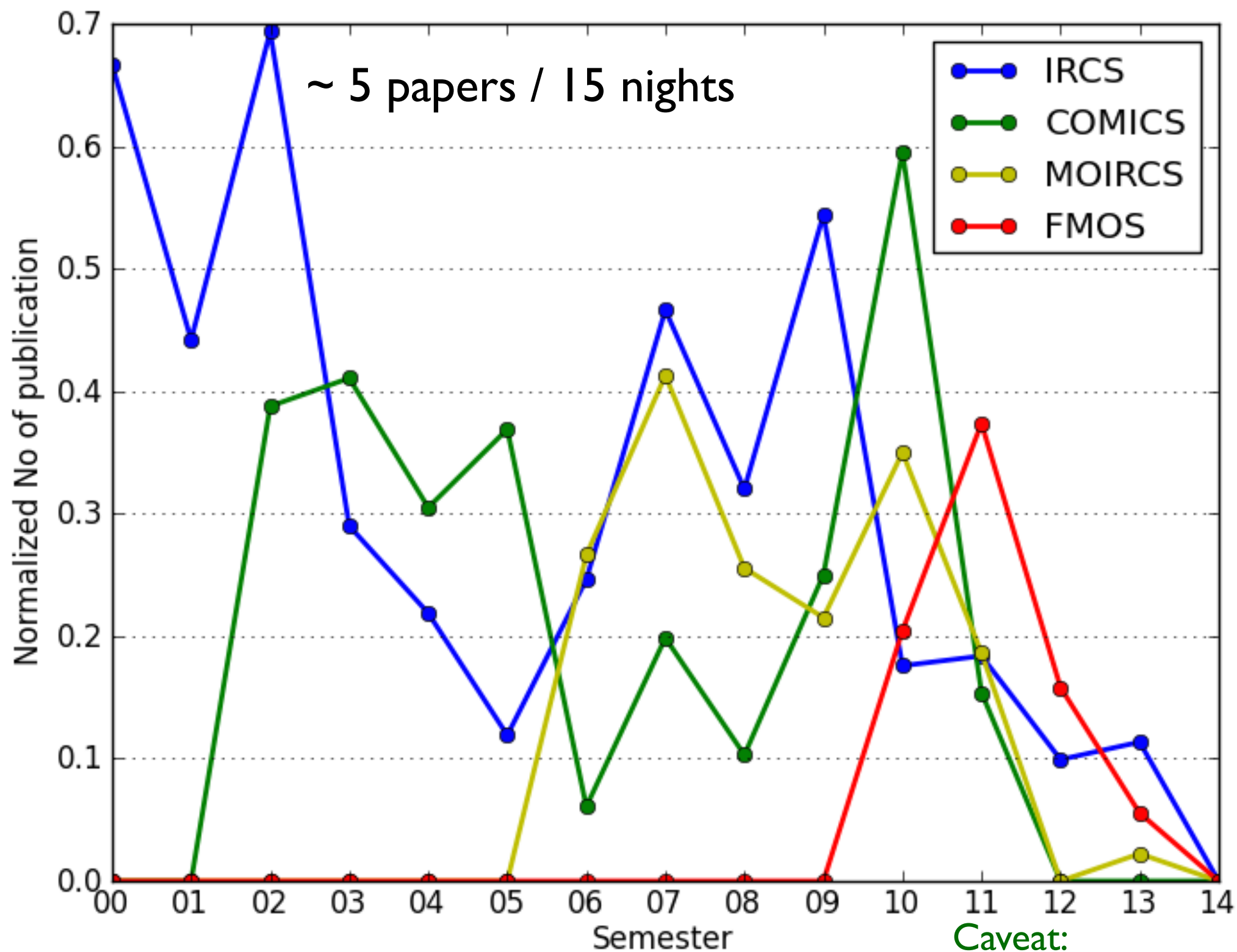
allocation

# No of publication: Opt instruments (w/o duplication)



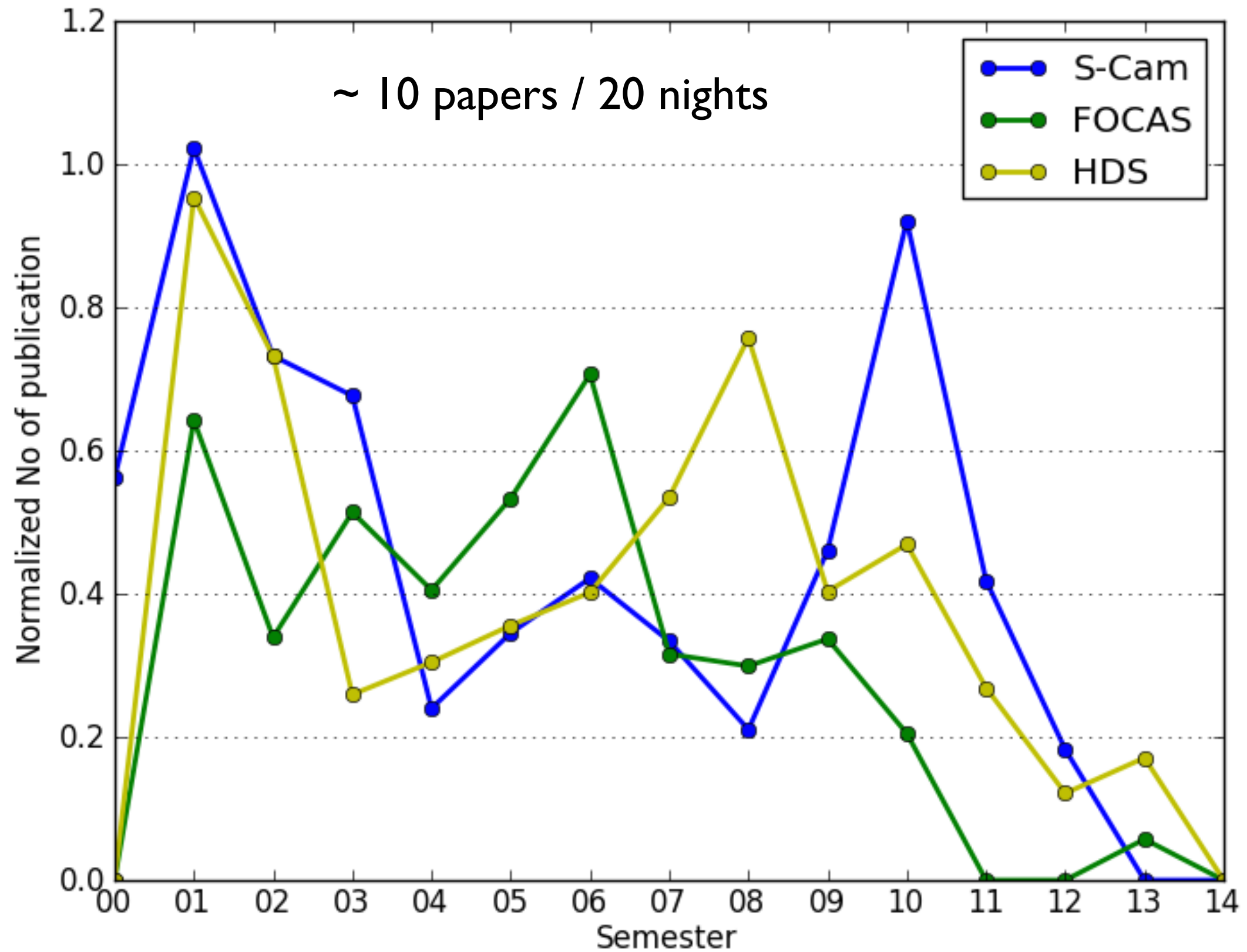
allocation

# Publication/night (IR)

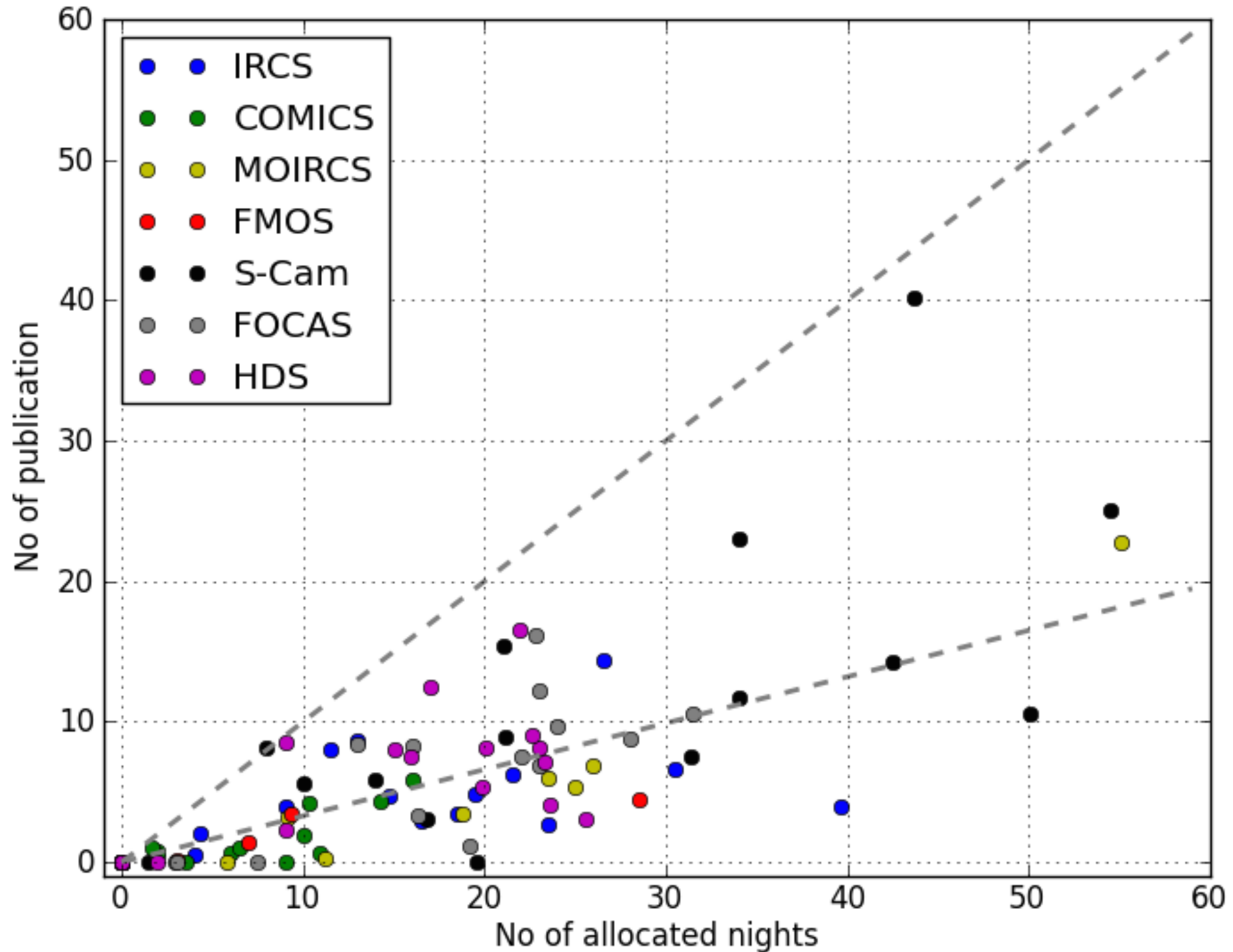


Caveat:  
small statistics for COMICS  
(Publication < 1 after 2008)

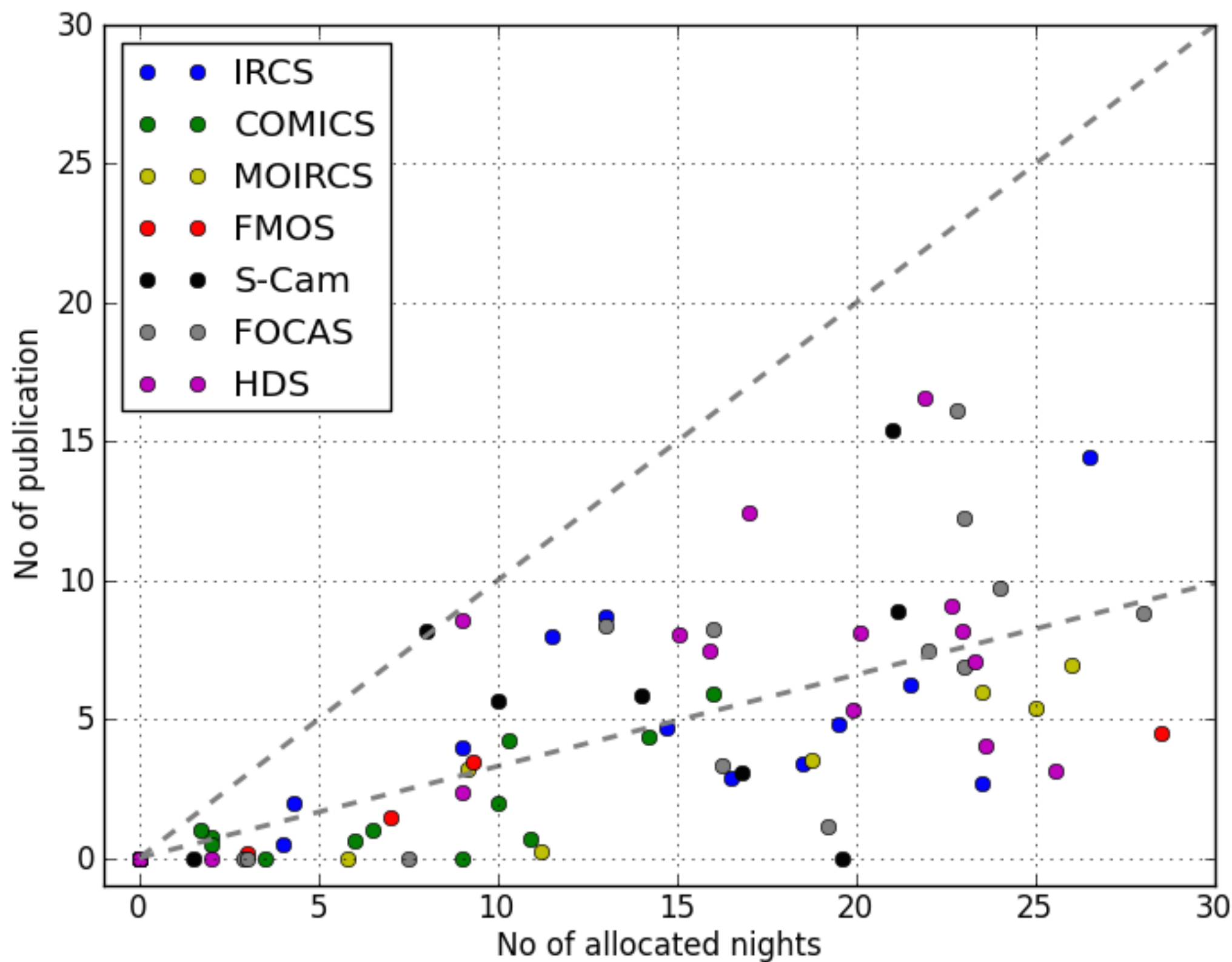
# Publication/night (Opt)



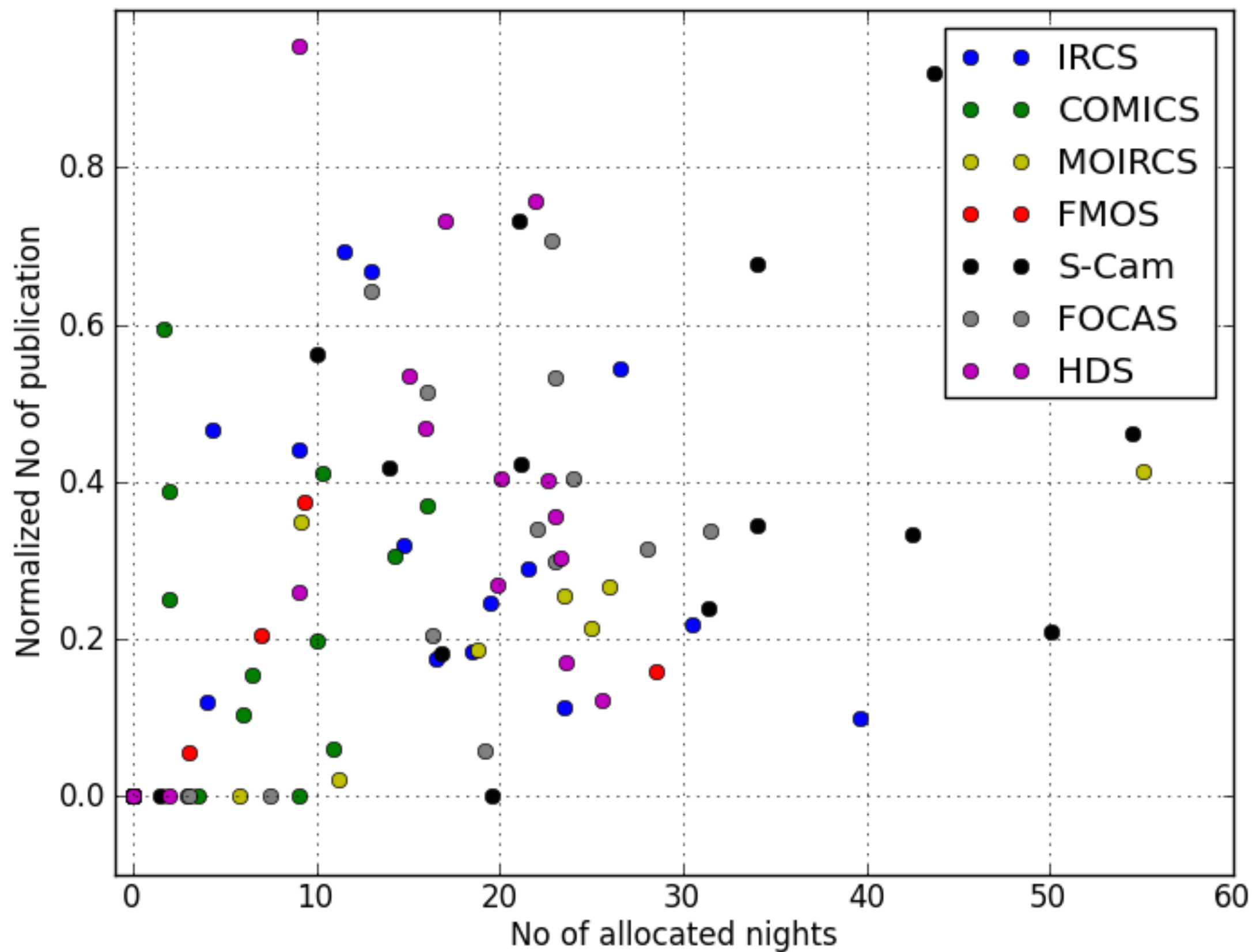
# No of publication vs. allocated nights (for 1 yr)



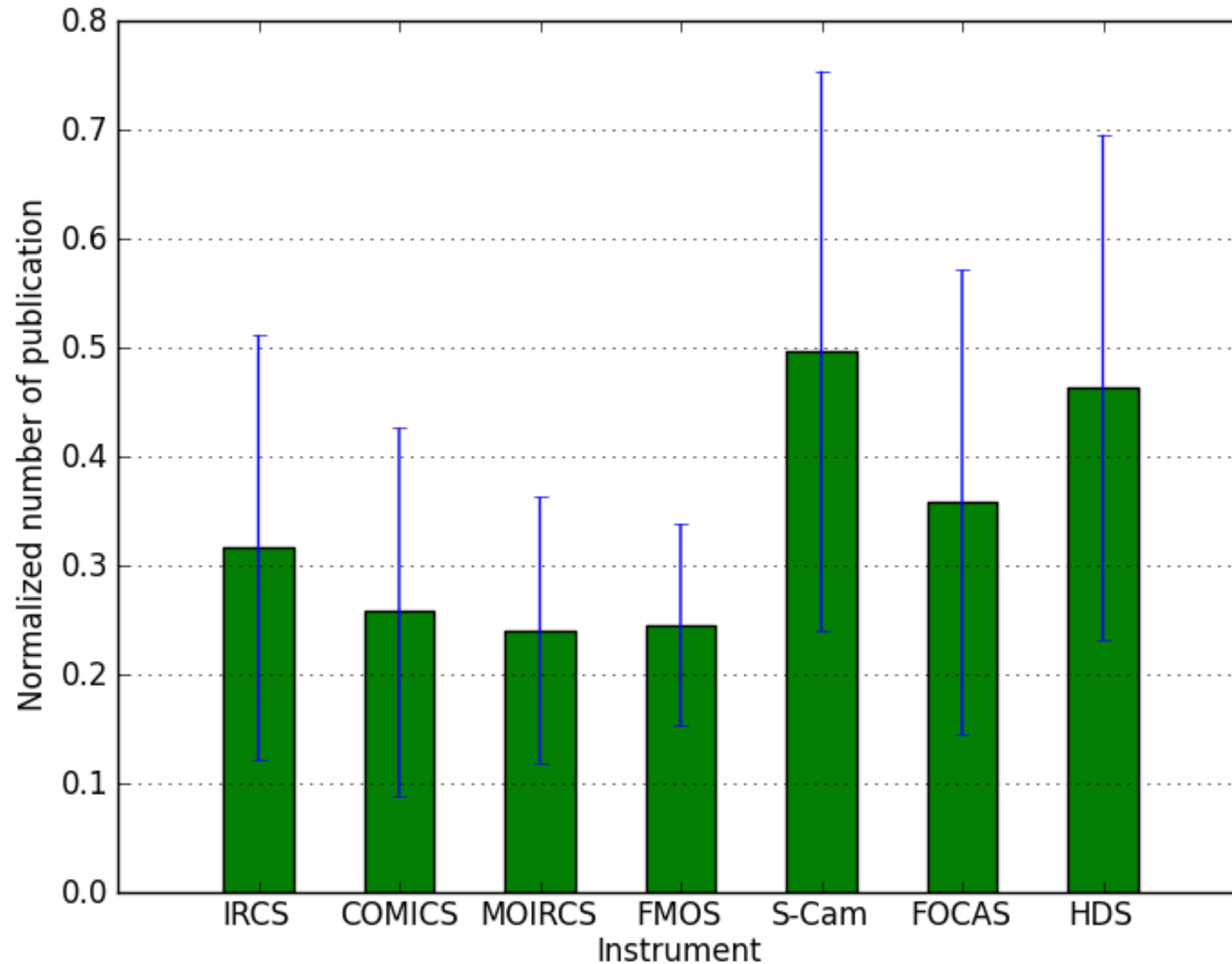
# Publication number vs. allocated nights (zoom)



# Publication/night vs. allocated nights (for 1 yr )



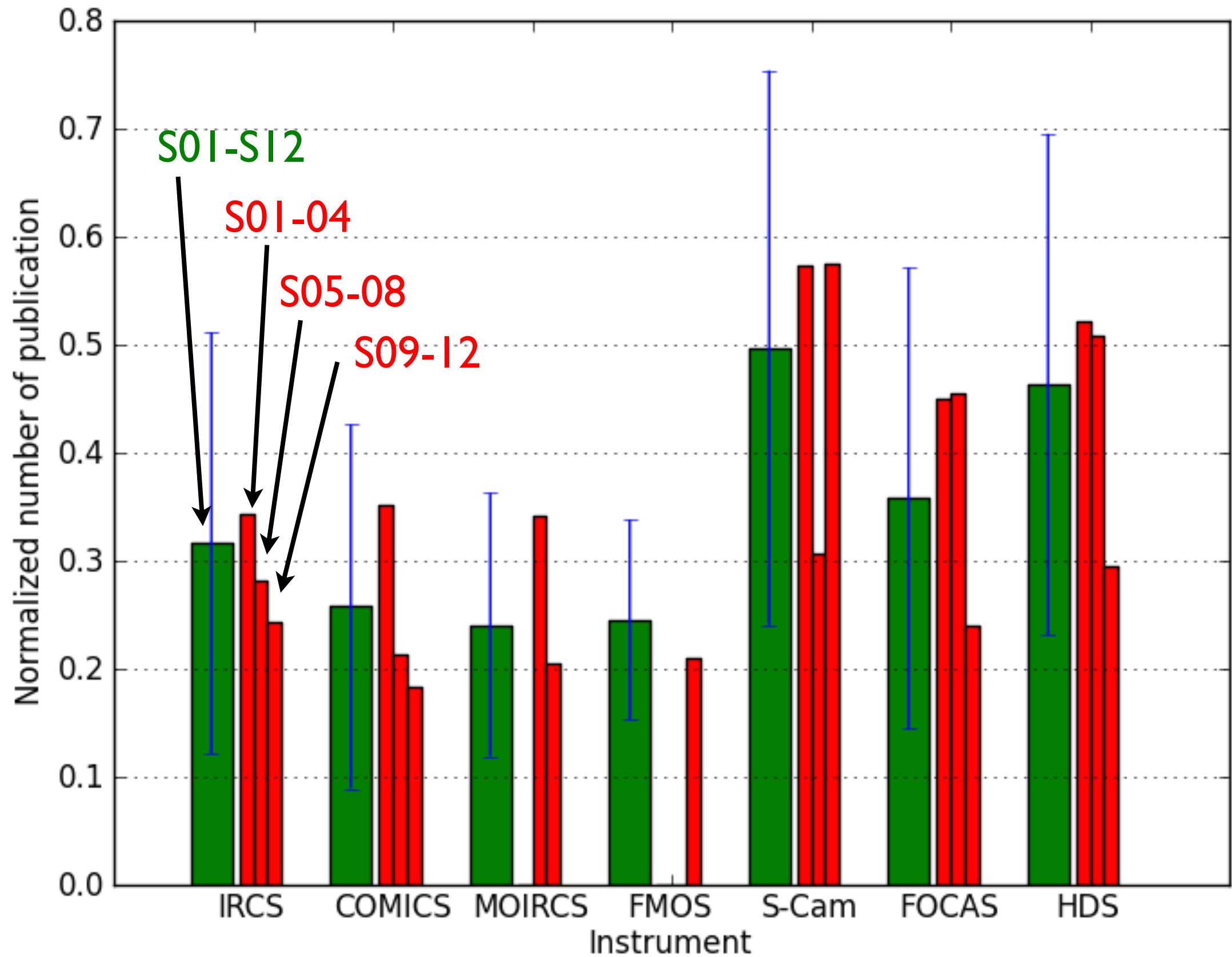
# Publication/night (S01-S12)



IR: ~ 5 papers / 15 nights

Opt: ~ 10 papers/ 20 nights

# Publication/night (time evolution)

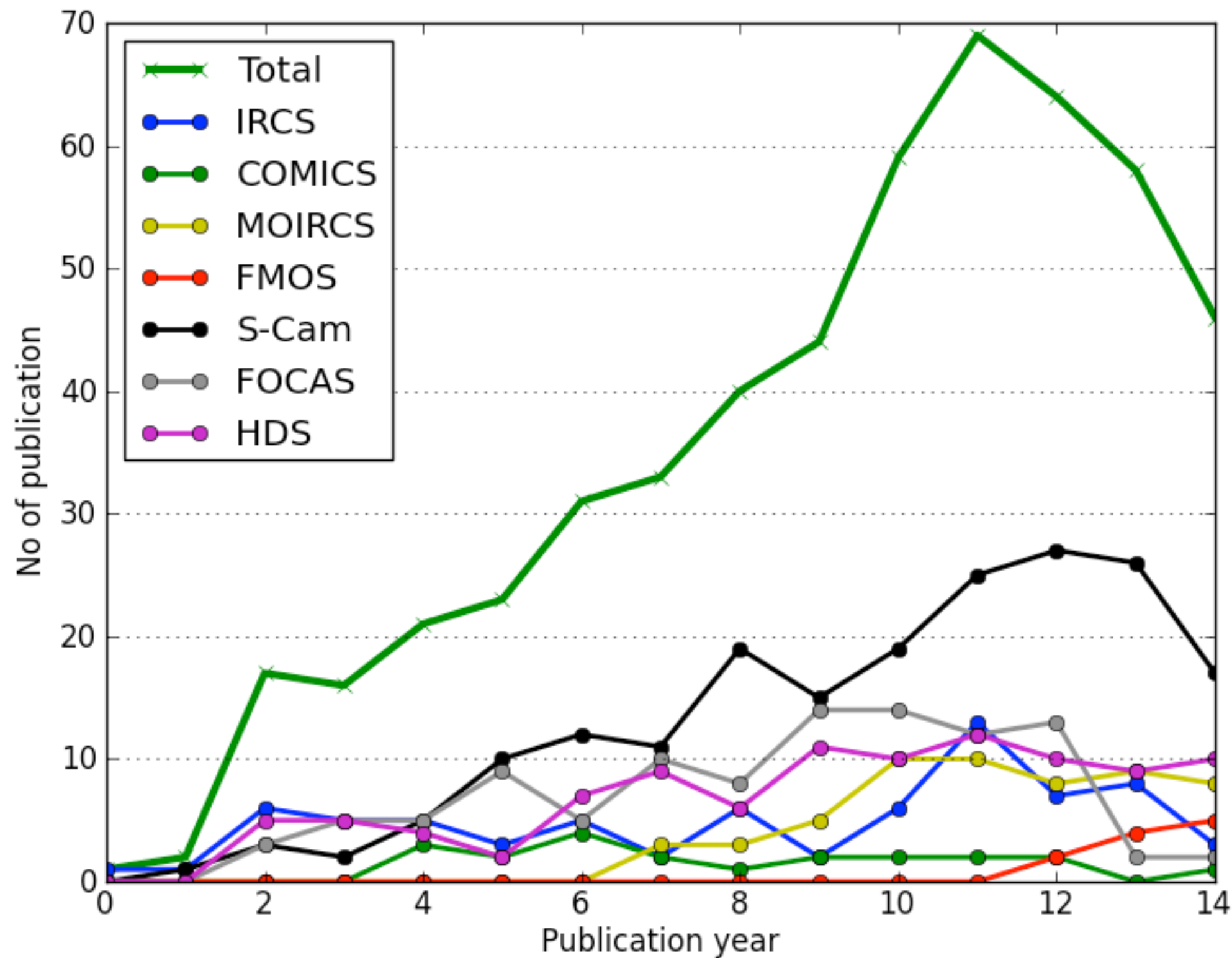


# Summary

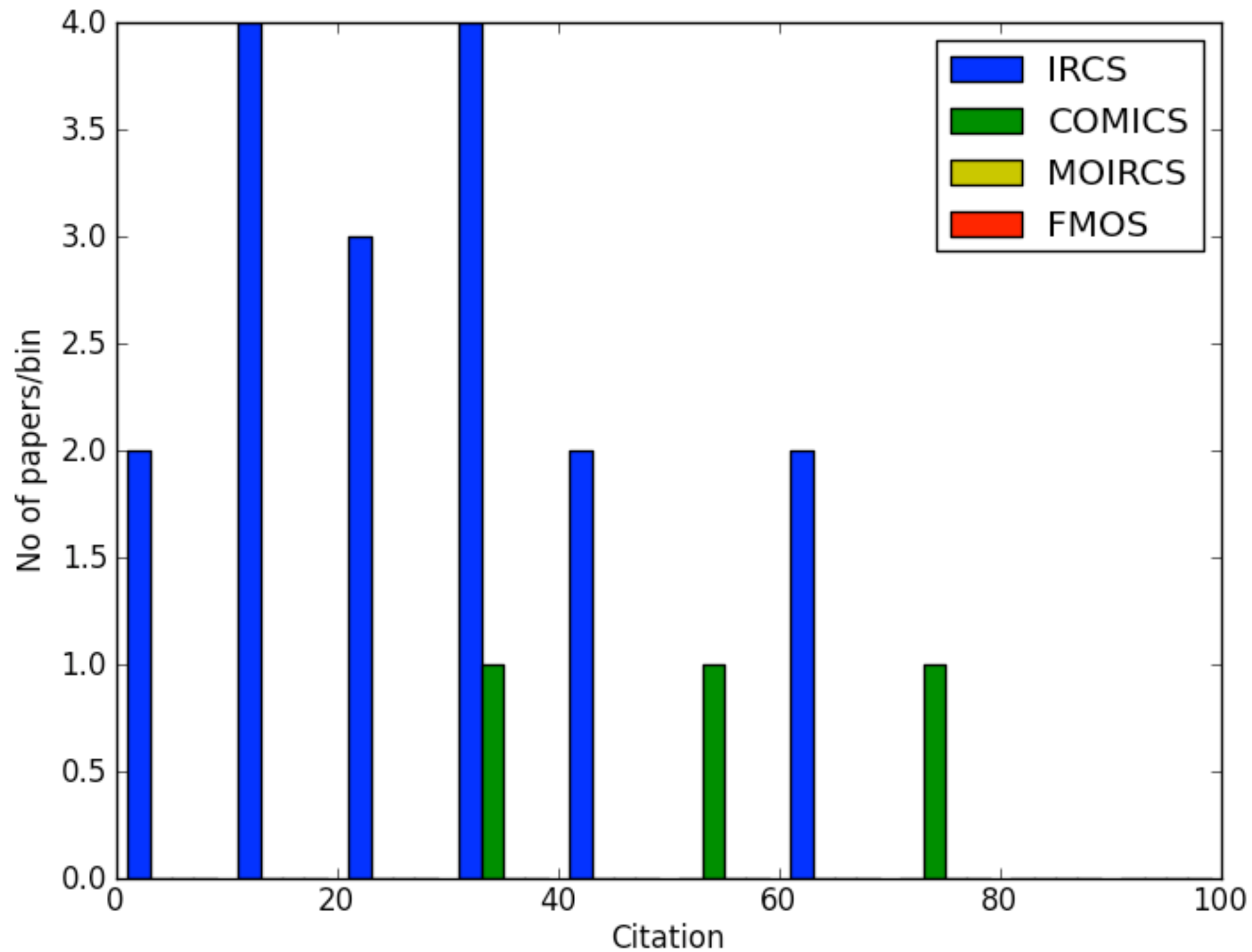
- No of publications
  - roughly follows the number of allocated nights
- Publication/night
  - No dramatic difference
  - $IR < Opt$
  - gradually decreases with time (slower for optical?)

# Citation survey

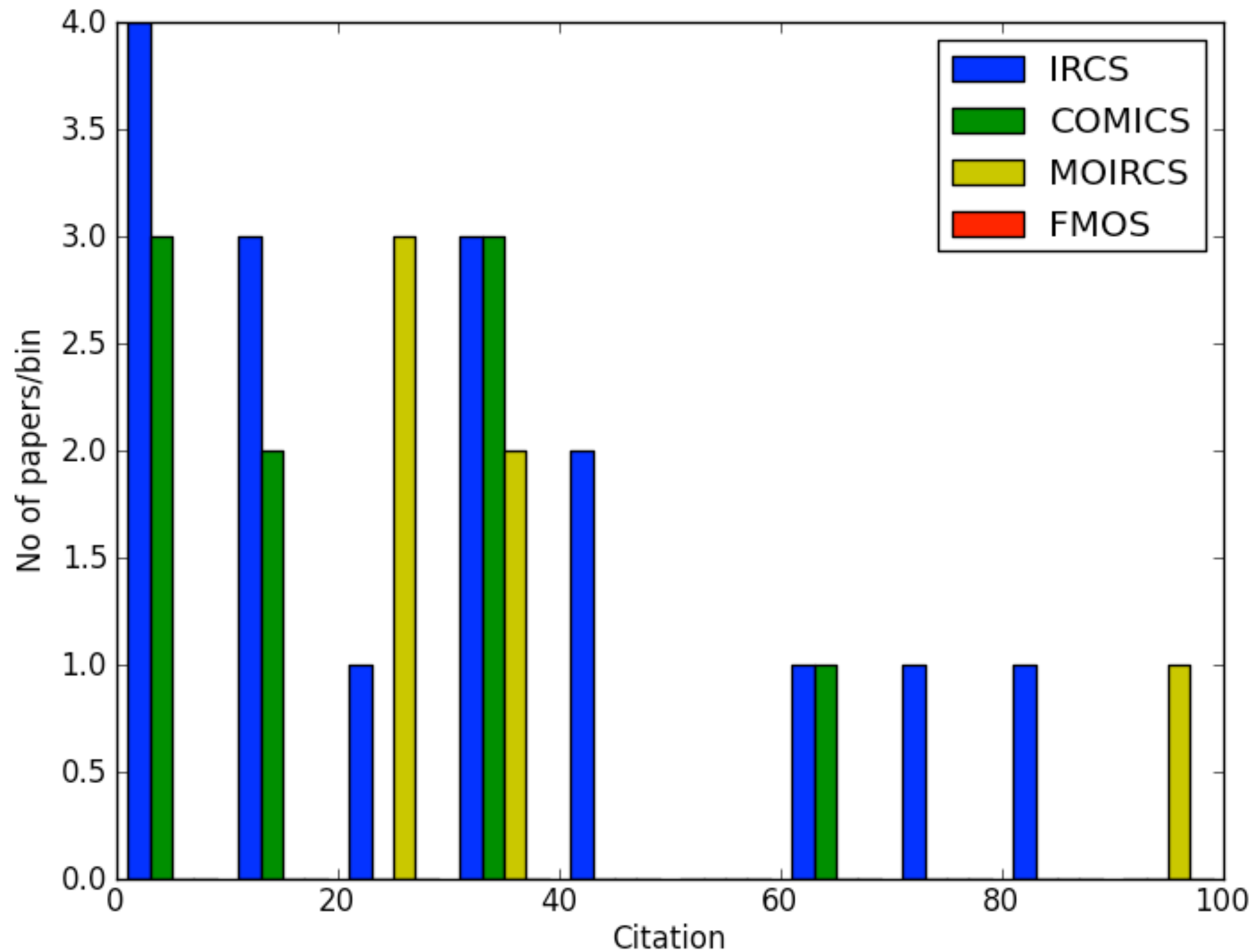
# Number of publication (in publication year)



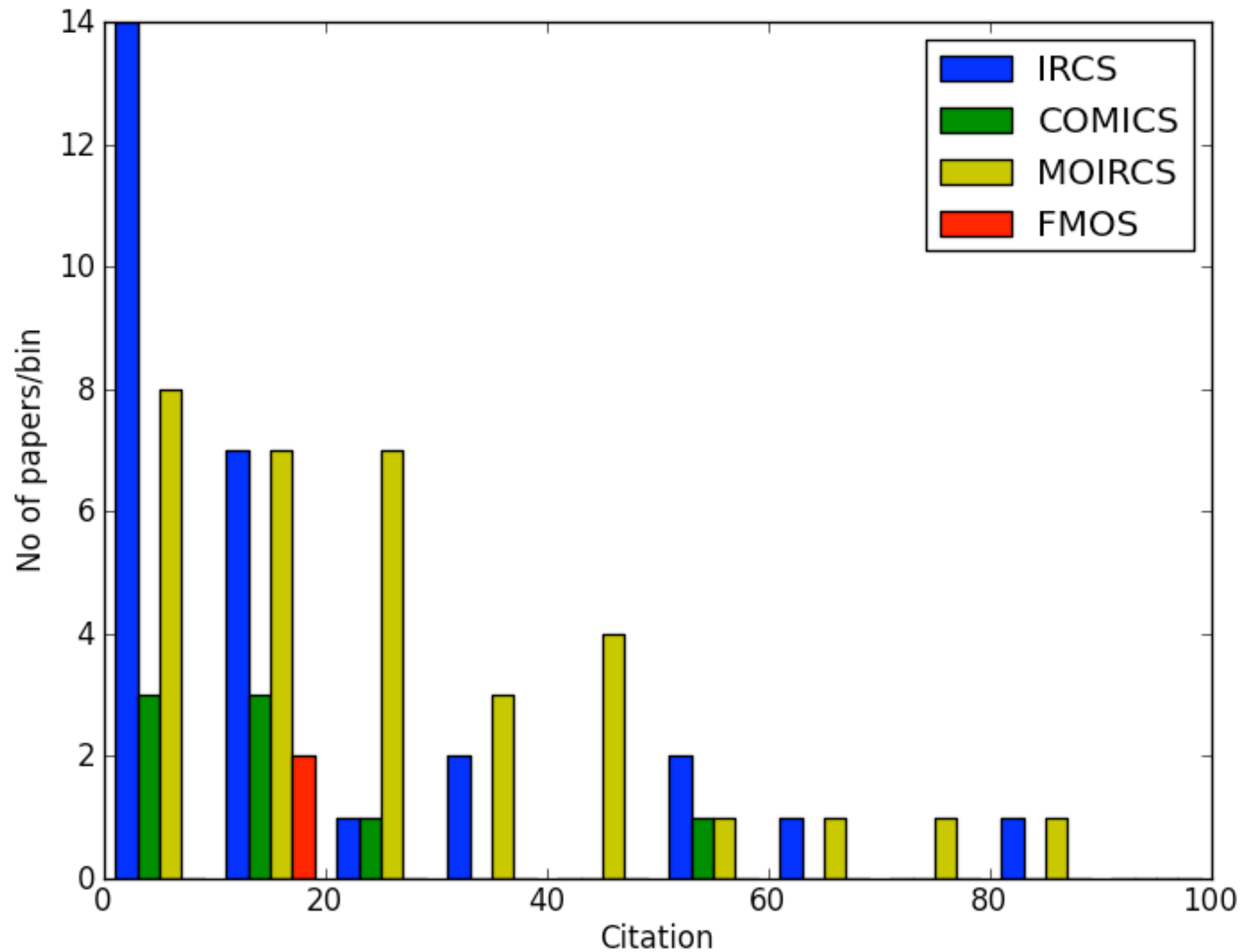
# Citation: 2001-2004 paper (IR)



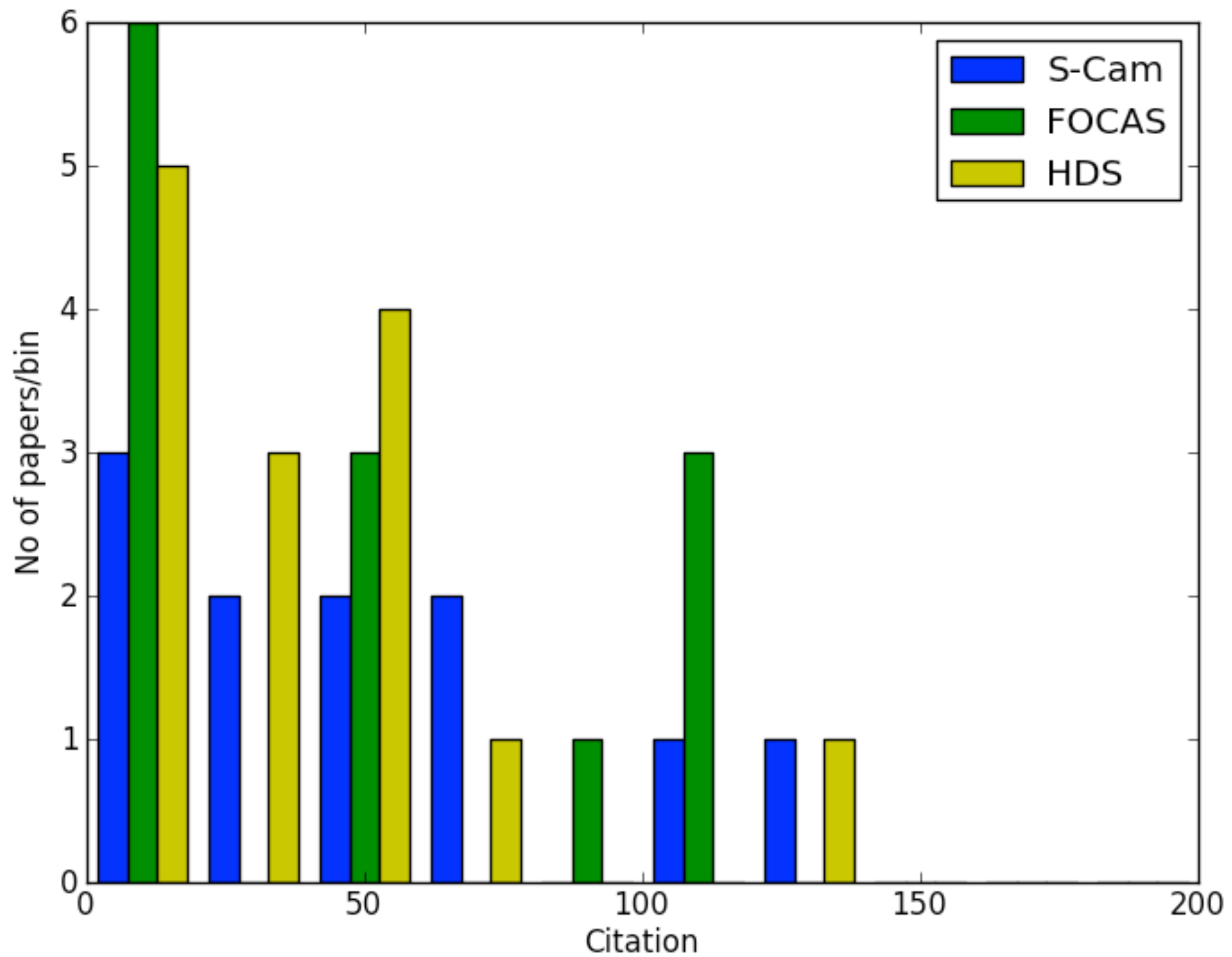
# Citation: 2005-2008 paper (IR)



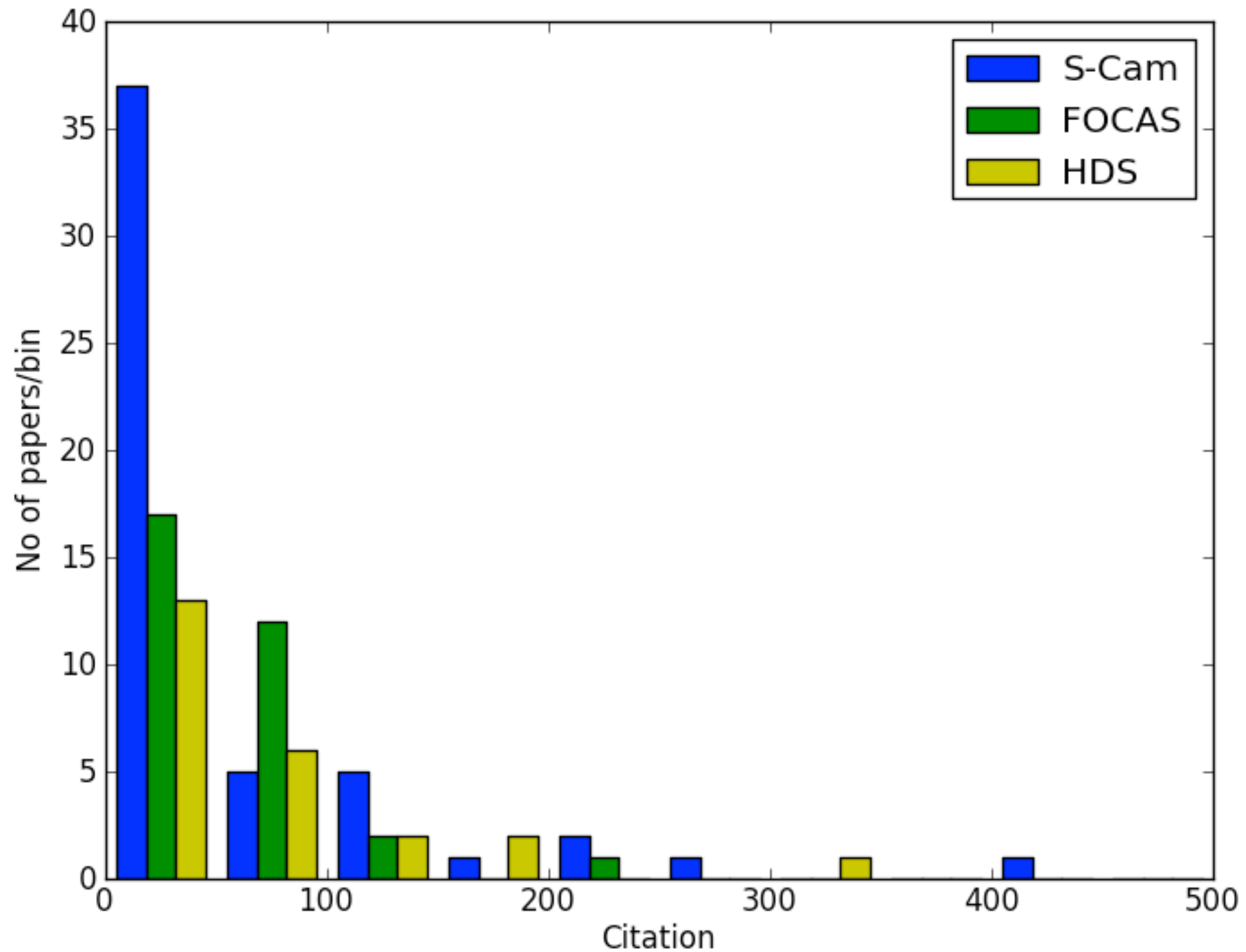
# Citation: 2009-2012 paper (IR)



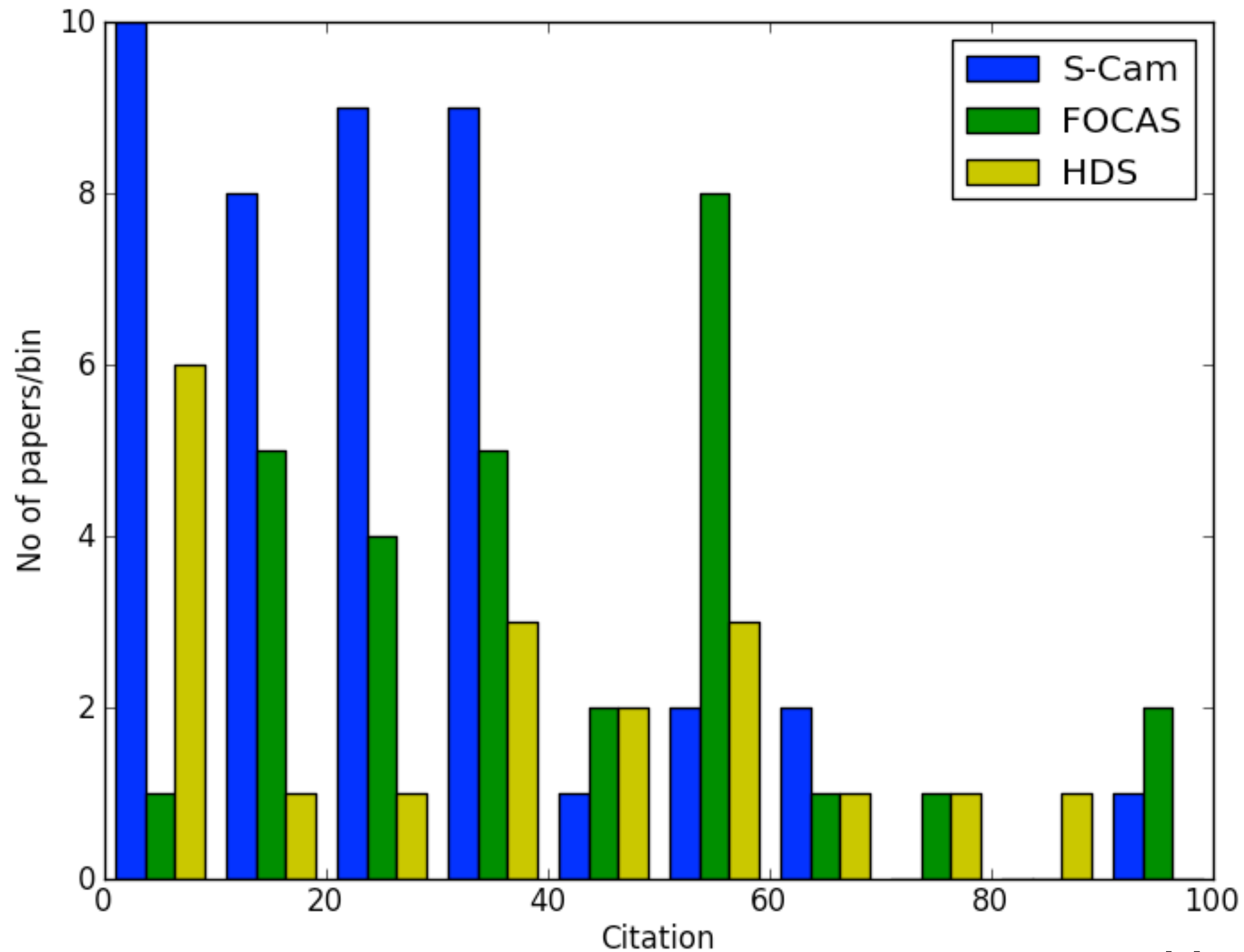
# Citation: 2001-2004 paper (Opt)



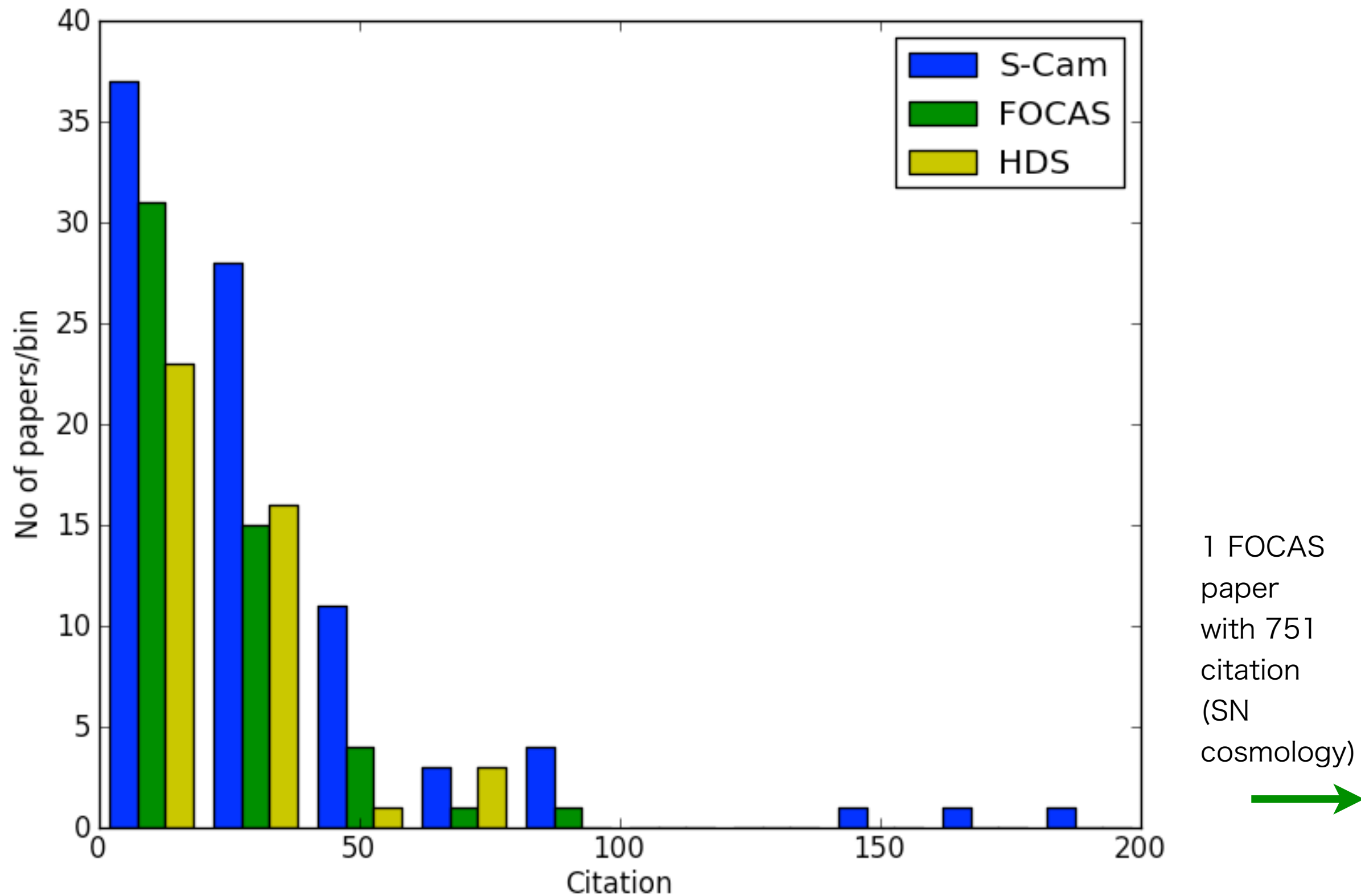
# Citation: 2005-2008 paper (Opt)



Citation: 2005-2008 paper (Opt, citation < 100)



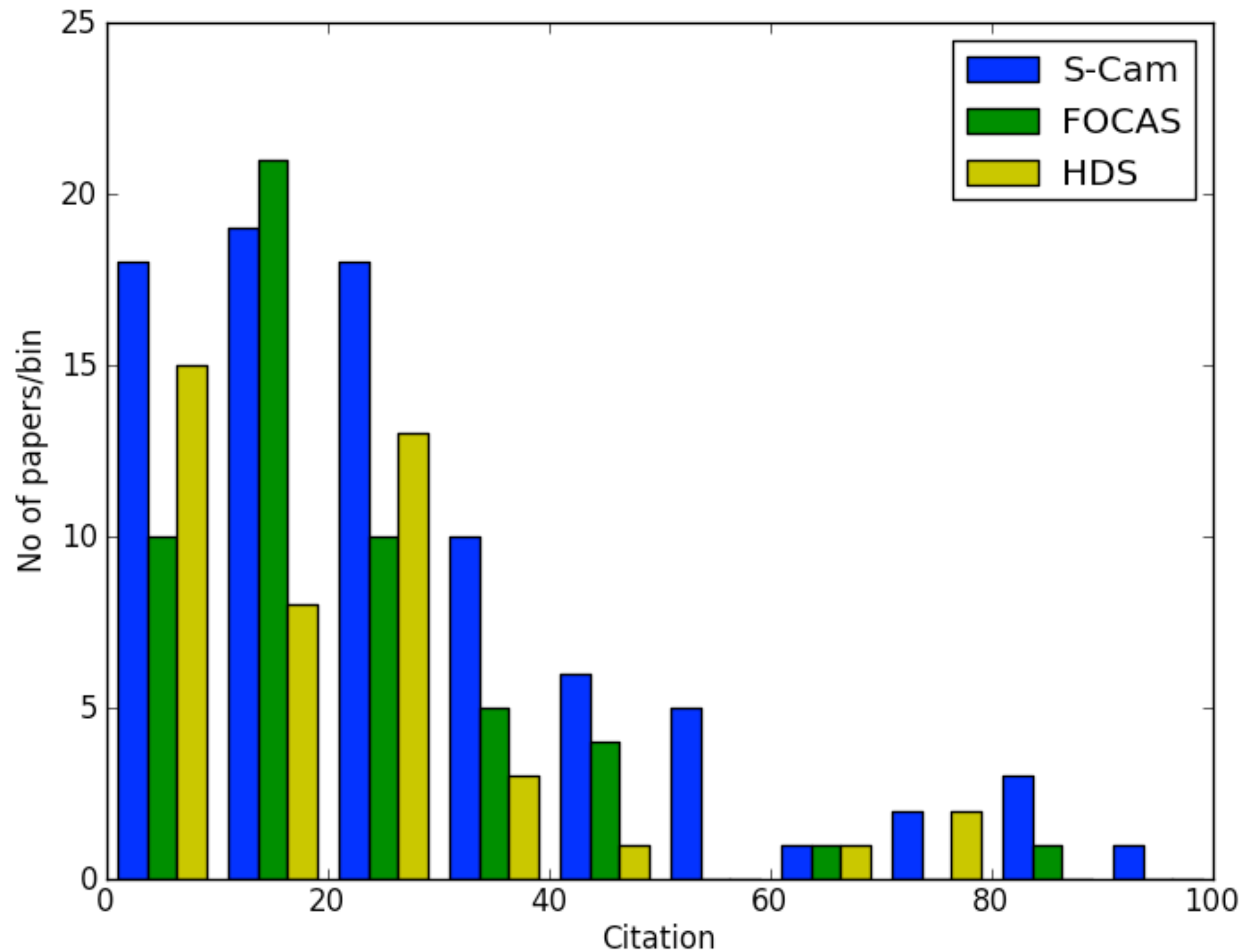
# Citation: 2009-2012 paper (Opt)



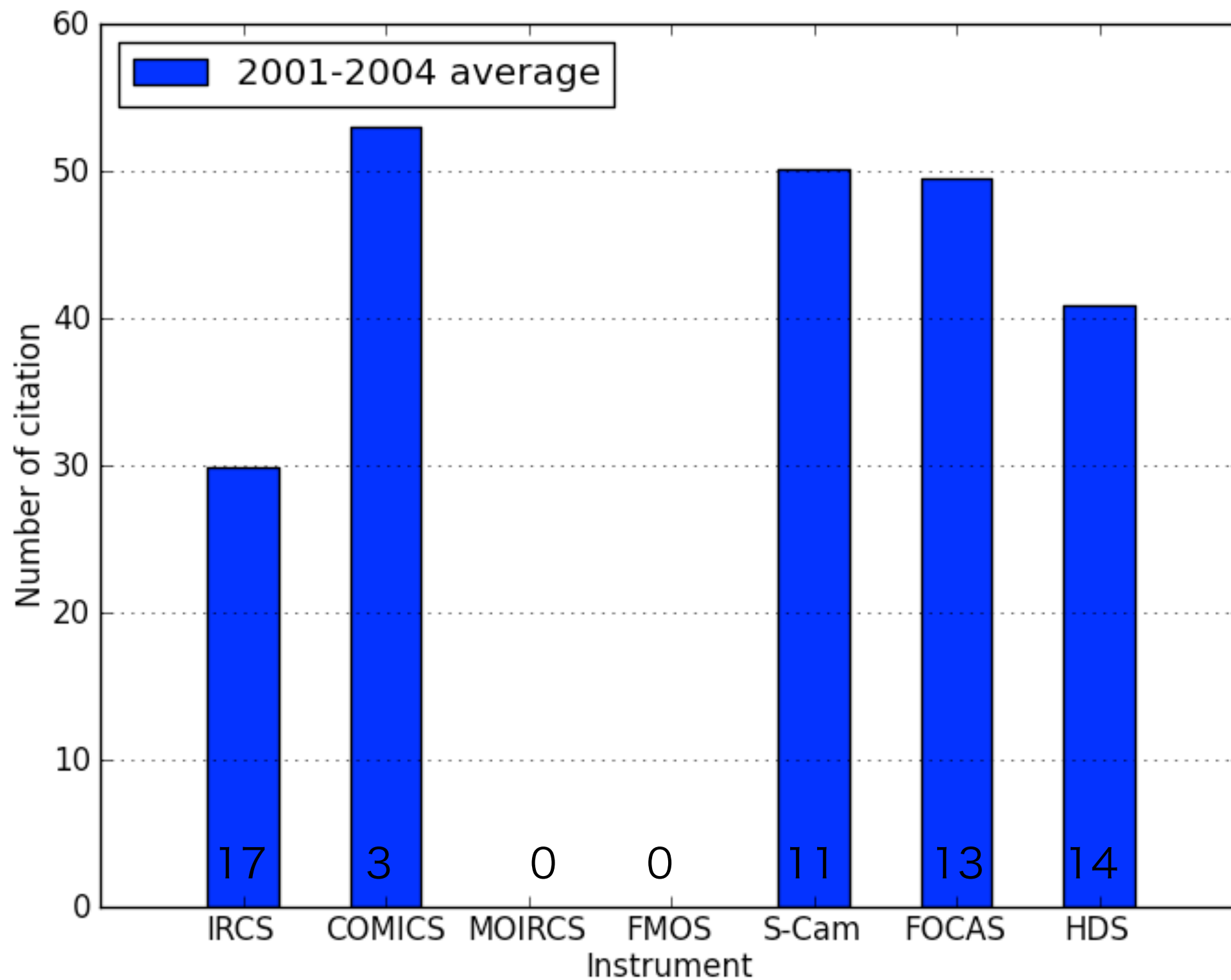
1 FOCAS  
paper  
with 751  
citation  
(SN  
cosmology)



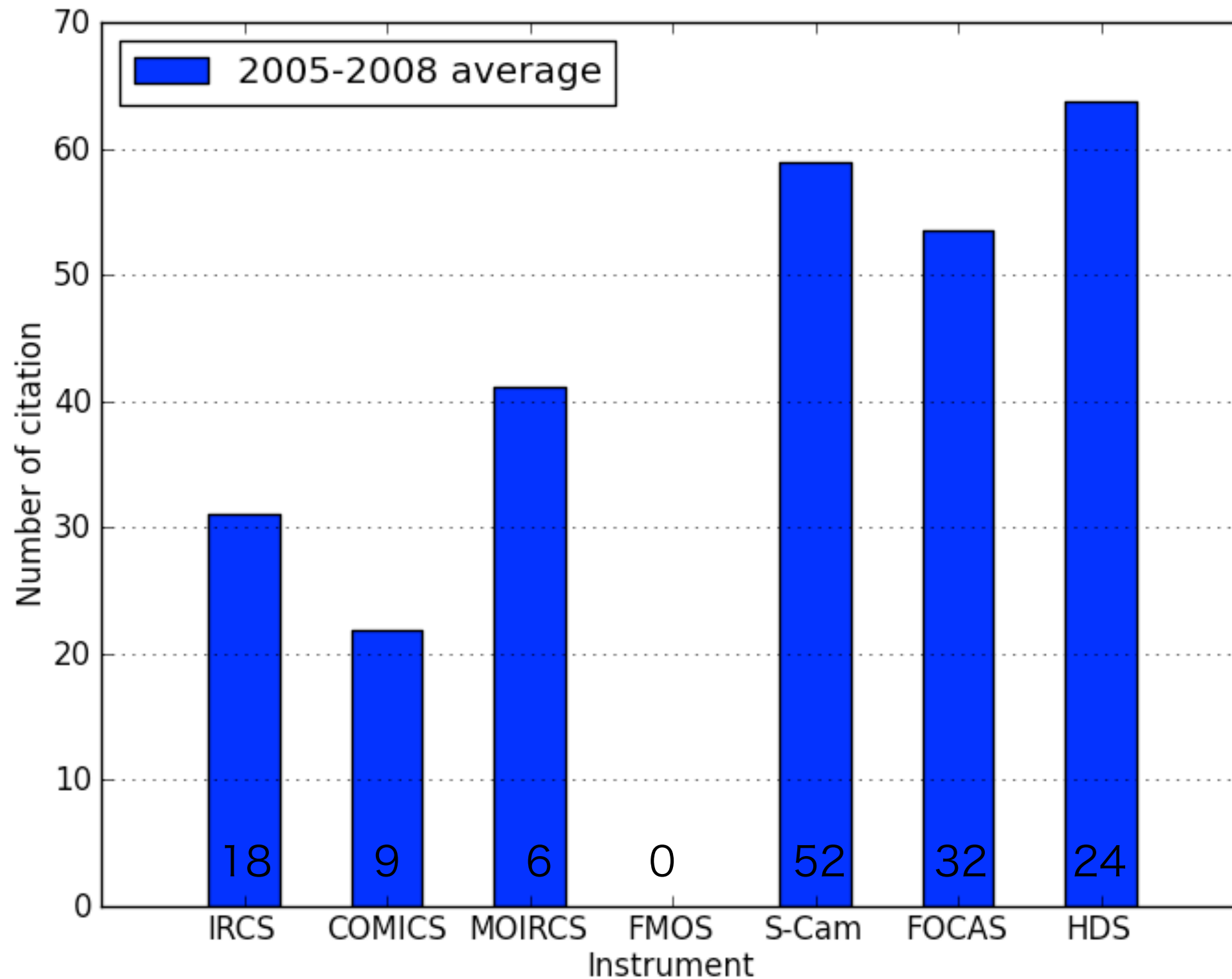
Citation: 2009-2012 paper (Opt, citation < 100)



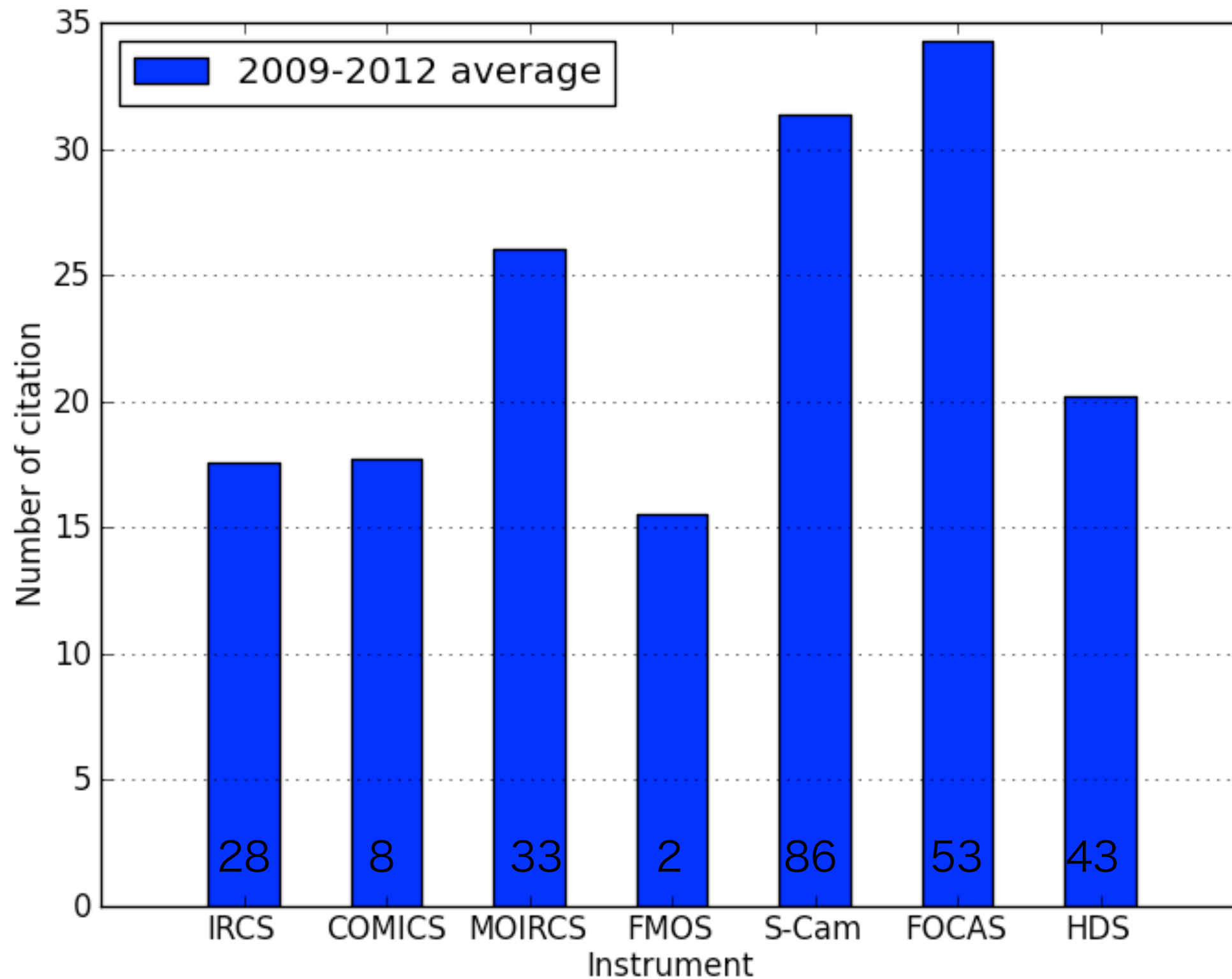
# Citation for each instrument (average, 2001-2004)



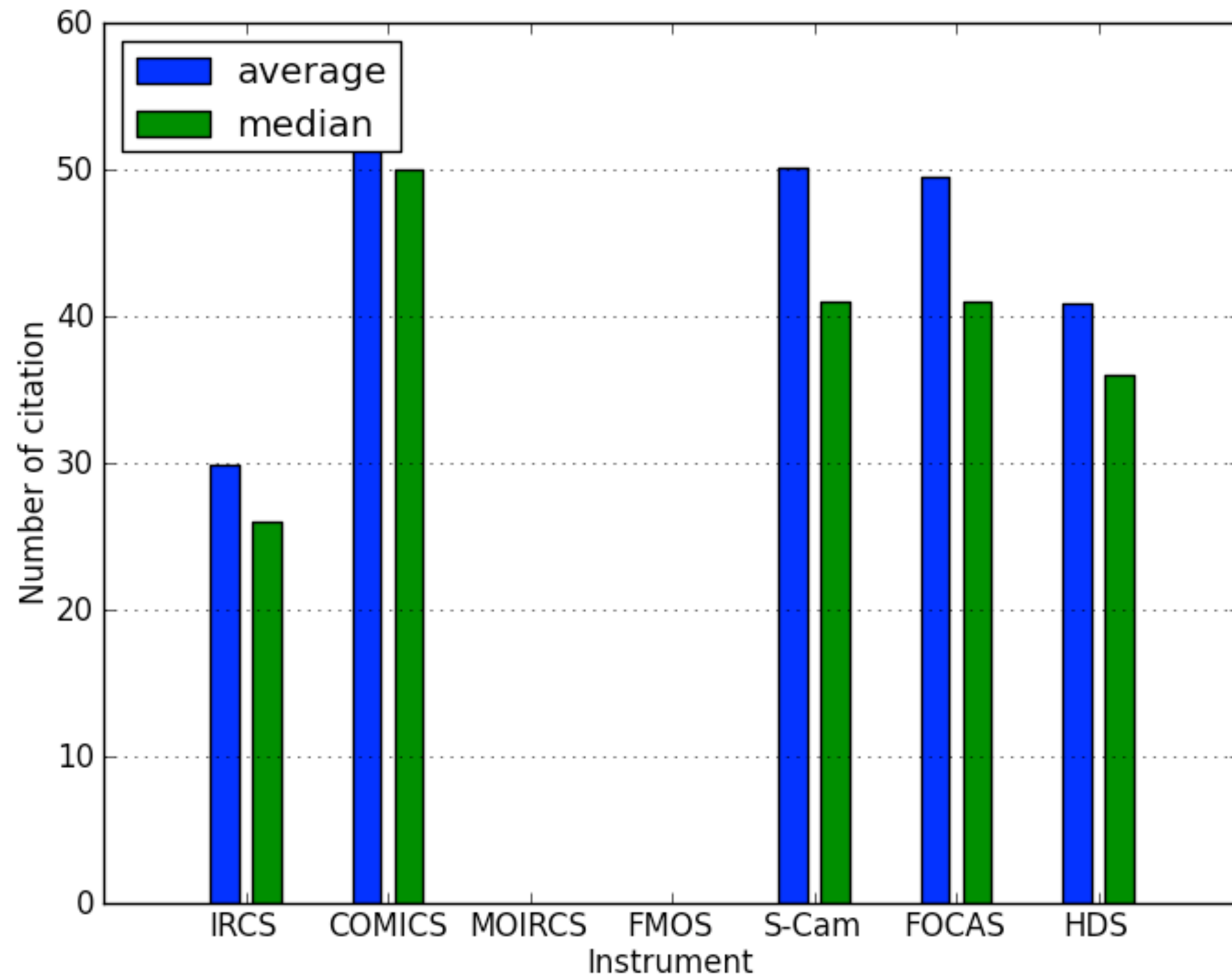
# Citation for each instrument (average, 2005-2008)



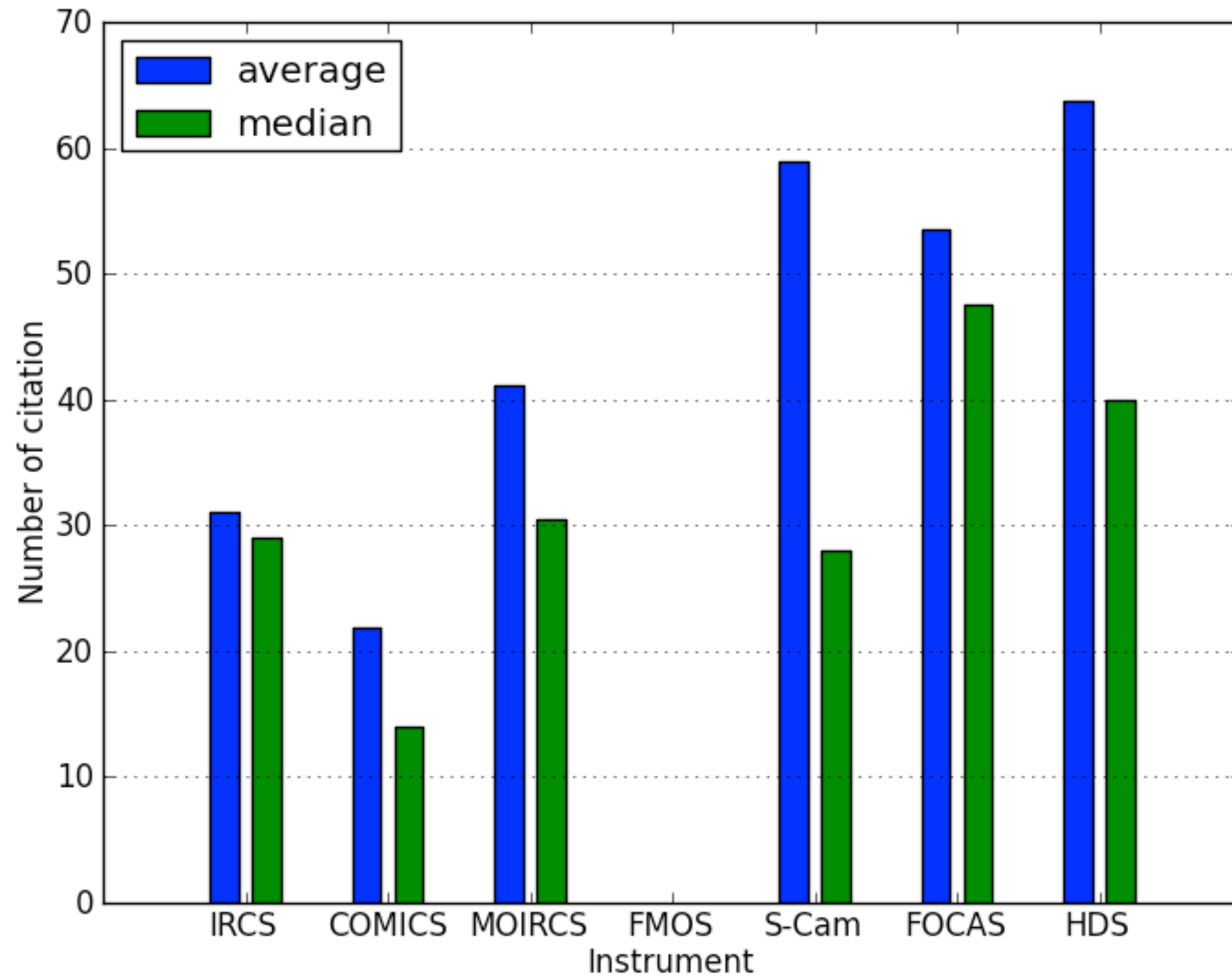
# Citation for each instrument (average, 2009-2012)



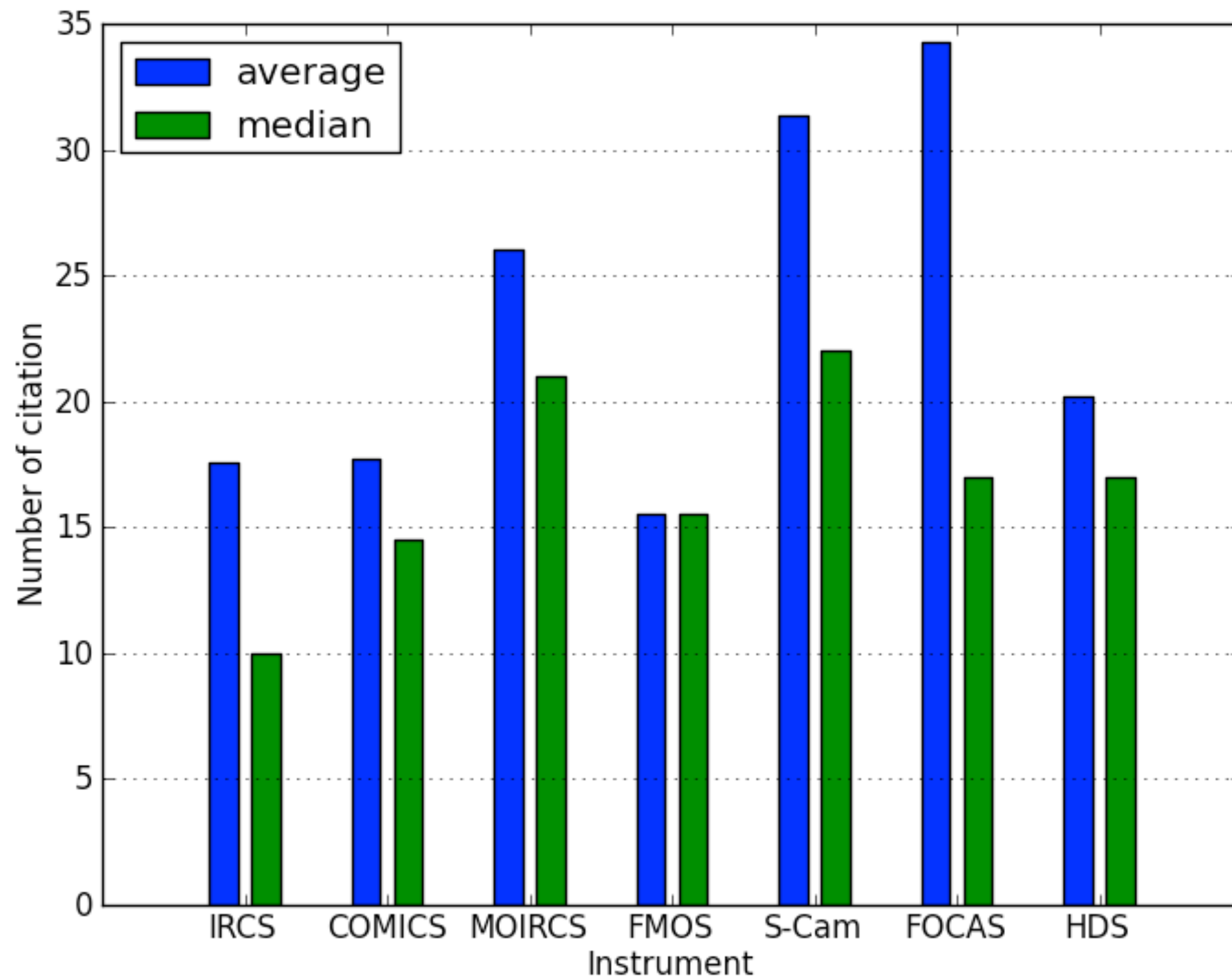
# Average vs median (2001-2004)



# Average vs median (2005-2008)



# Average vs median (2009-2012)



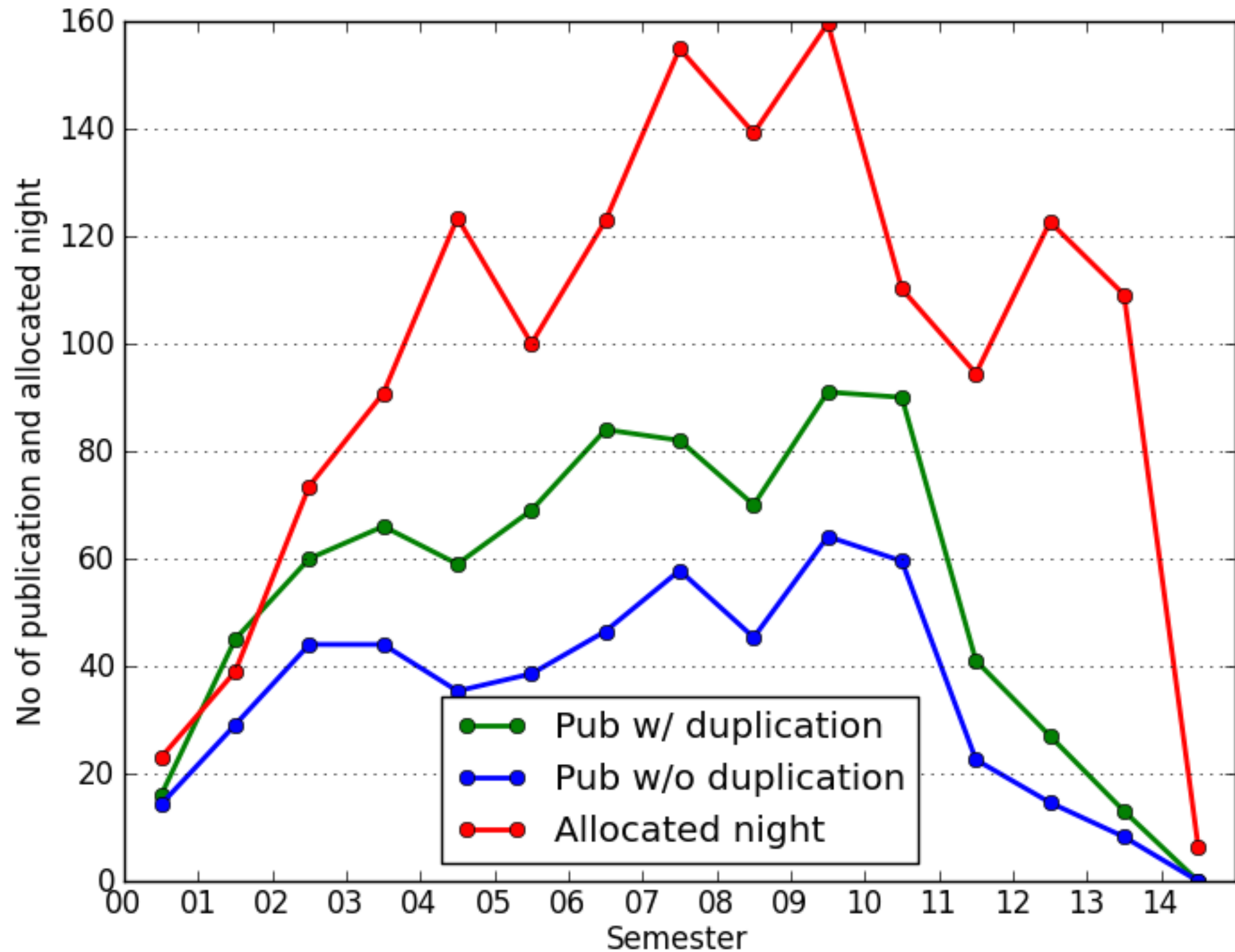
# Summary

- Average citation
  - (A) S-Cam, FOCAS
  - (B) MOIRCS, HDS, (FMOS)
  - (C) IRCS, COMICS
- 2005-2008: S-Cam, FOCAS, HDS > MOIRCS, IRCS, COMICS
- 2009-2012: S-Cam, FOCAS, MOIRCS > HDS, IRCS, COMICS
- Number of high-impact papers (citation > 100) is higher for optical instruments
- S-Cam > FOCAS, HDS > IR instruments
- Difference is smaller in median
- Distribution is not significantly different for the papers w/ citation < 50-100

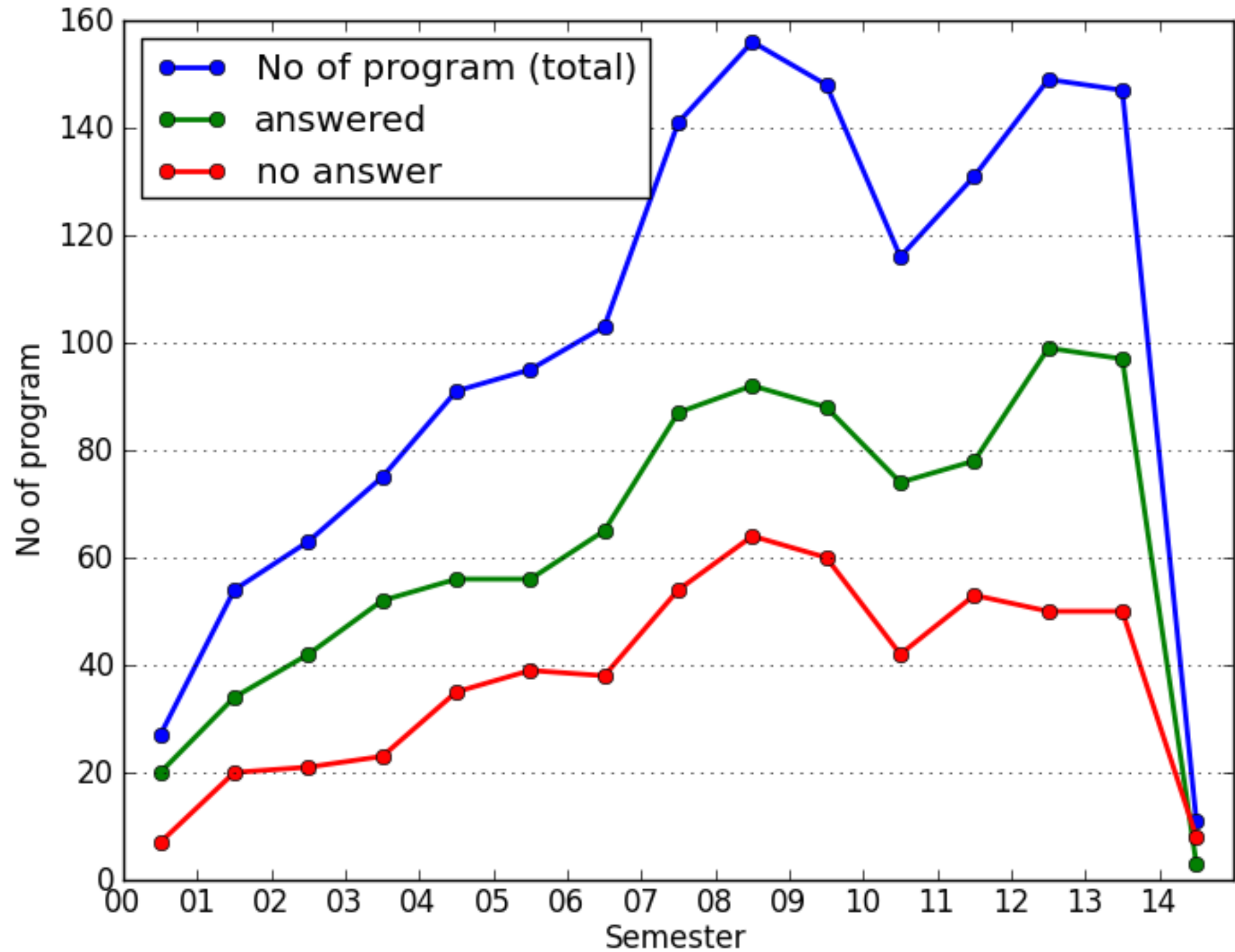
# Appendix A

## Number of programs and allocated nights

# Publication and allocated night



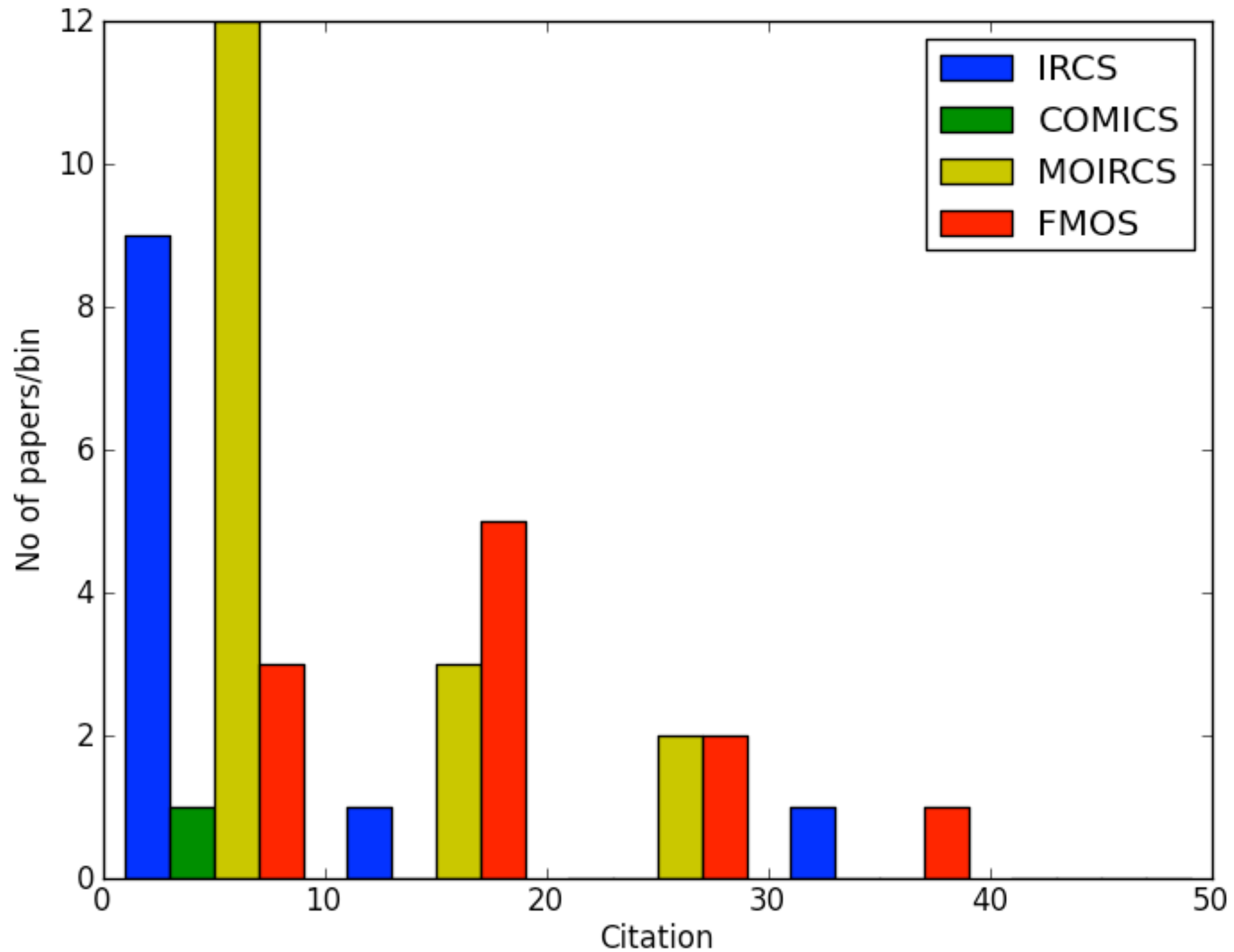
# No of program



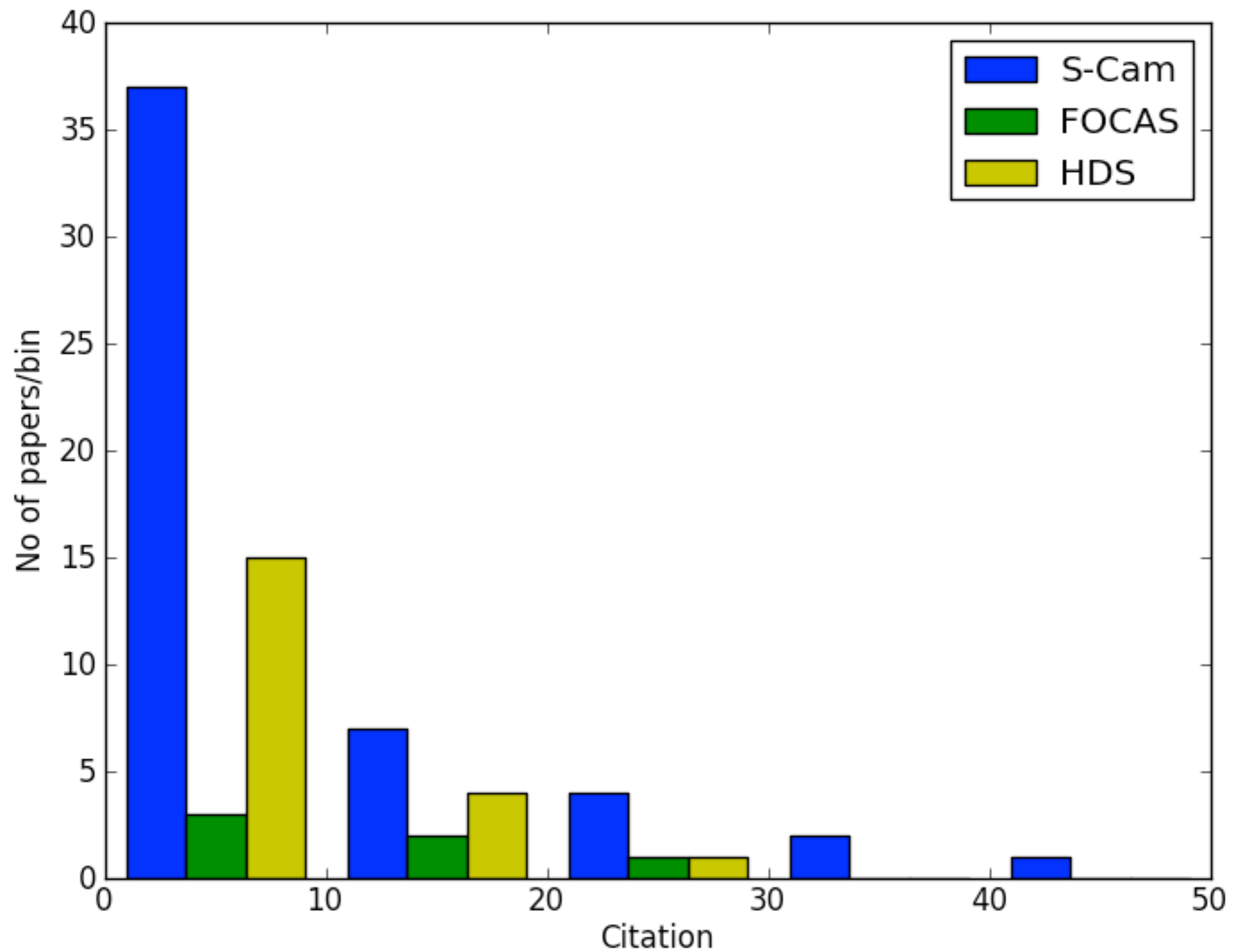
# Appendix B

## Citation statistics

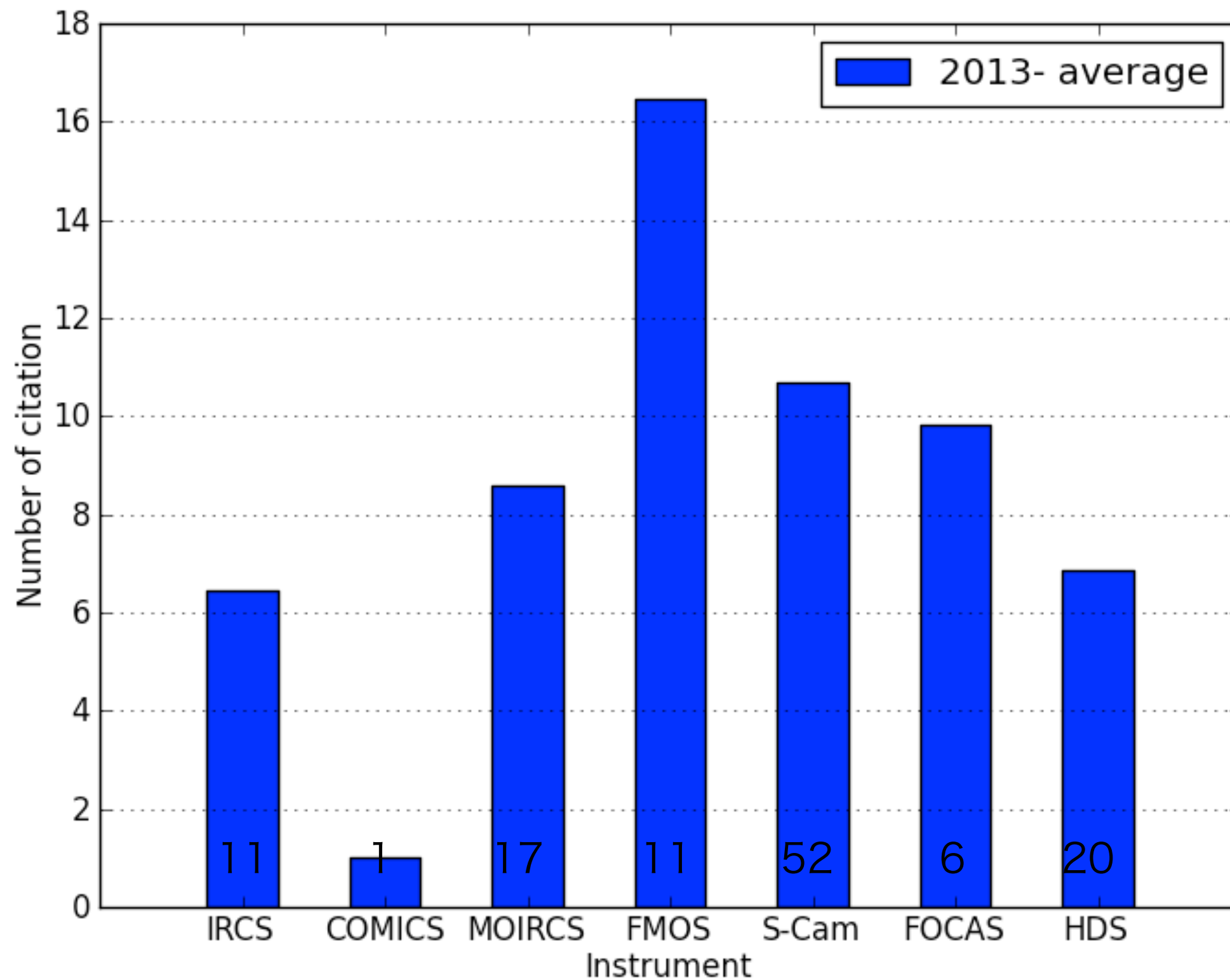
# Citation: 2013- paper (IR)



# Citation: 2013- paper (Opt)



# Citation for each instrument (average, 2013-)



# Average vs median (2013-)

