

Year: 2007

Vol.: 70

Fasc.: 1-2

**Title:** On the average number of divisors of the Euler function

**Author(s):** Florian Luca and Carl Pomerance

We let  $\varphi(\cdot)$  and  $\tau(\cdot)$  denote the Euler function and the number-of-divisors function, respectively. In this paper, we study the average value of  $\tau(\varphi(n))$  when  $n$  ranges in the interval  $[1, x]$ .

**Address:**

Florian Luca  
Instituto de Matemáticas  
Universidad Nacional Autónoma de México  
C.P. 58089, Morelia, Michoacán  
México

**Address:**

Carl Pomerance  
Department of Mathematics  
Dartmouth College  
Hanover, NH 03755-3551  
USA