

Informes IUNE - IUNE Reports

DATASETS 2020

PRODUCCIÓN CIENTÍFICA DEL SISTEMA UNIVERSITARIO ESPAÑOL.

MEDIA de autores por documento para cada Categoría WoS y Año.

Actualización para el PERIODO 2009-2018.

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Definición: Para el cálculo del promedio de autores por documento se han considerado las firmas de los documentos publicados por, al menos, un autor perteneciente a una Universidad española. Se han agregado los documentos en las categorías definidas por la Web of Science y se ha obtenido la media anual y la media para el período completo (2008-2017). En este informe, además se han añadido los valores totales calculados para el periodo anterior y la diferencia entre ambos. Puede observarse que los tamaños de los grupos siguen aumentando en muchas disciplinas, si bien la mayoría lo hace en unas pocas décimas. De las 254 categorías WoS consideradas, sólo algunas áreas (todas ellas ligadas a las *grandes colaboraciones* en Física) han aumentado el tamaño de los grupos notoriamente (entre 40 y 70 autores por documento). La recopilación de datos se llevó a cabo en febrero de 2020.

Tabla 1: Índices de coautoría por año y Categoría WoS

CATEGORÍA WOS	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2009-2018	[2008-2017]	Dif.
ACOUSTICS	4	4	4.5	4.3	4.5	5	4.8	5.1	4.9	4.7	4.6	4.6	0.0
AGRICULTURAL ECONOMICS & POLICY	2.9	2.5	2.5	2.8	3	3.7	3.3	2.8	2.8	3.9	3	2.9	0.1
AGRICULTURAL ENGINEERING	4.2	4.4	4.8	4.6	4.9	4.7	5	4.9	5.3	6.1	4.9	4.7	0.2
AGRICULTURE, DAIRY & ANIMAL SCIENCE	5.7	5.6	5.6	5.9	5.7	5.9	5.8	5.9	5.9	6.1	5.8	5.8	0.0
AGRICULTURE, MULTIDISCIPLINARY	4.7	4.7	4.9	5	4.9	4.9	5.1	5.5	5.4	5.4	5	5	0.0
AGRONOMY	4.8	5.2	5.1	4.9	5.5	5.4	5.6	5.2	5.7	7.1	5.5	5.3	0.2
ALLERGY	8.4	6.6	8	13.5	8.8	9.7	9.9	13.4	12.2	13.3	10.8	10.3	0.5
ANATOMY & MORPHOLOGY	5.2	4.9	5.2	4.8	5.1	5.2	5.5	5.4	5.5	5.4	5.2	5.2	0.0
ANDROLOGY	5.6	4.9	5.9	6.2	7.1	4.7	6.7	6.9	5.8	5.6	5.9	6.1	-0.2
ANESTHESIOLOGY	5.7	5.9	6.1	5.9	7.5	9.1	10.1	37.1	36.8	6.8	15.3	7.3	8.0
ANTHROPOLOGY	9.2	4.6	4	4.1	4.3	4.6	4.6	4.4	4.5	4.5	4.8	4.8	0.0
ARCHAEOLOGY	3.5	3.6	3.1	3.2	3.8	3.9	3.3	3.6	3.3	3.9	3.6	3.5	0.1
ARCHITECTURE	2.1	1.5	2	2.2	2.1	2.2	2.4	1.8	2.1	1.9	2	2.1	-0.1
AREA STUDIES	1.4	1.3	1.8	1.3	1.4	1.5	1.8	1.7	1.7	1.5	1.5	1.5	0.0
ART	1.5	1.3	1.6	1.8	1.5	1.6	1.6	1.7	1.8	2.2	1.7	1.6	0.1
ASIAN STUDIES	1	1	1.1	1.3	1	1	1	1.4	1.2	1.5	1.2	1.2	0.0
ASTRONOMY & ASTROPHYSICS	56.1	51.3	146.6	238.3	190.4	148.7	170.6	211.3	159	180.7	160.5	151.2	9.3
AUDIOLOGY & SPEECH-LANGUAGE PATHOLOGY	3.2	3.8	3.6	4.4	4.2	4.2	4.7	5	5.6	4.8	4.5	4.3	0.2

Tabla 1: Índices de coautoría por año y Categoría WoS (... continuación)

CATEGORÍA WOS	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2009-2018	[2008-2017]	Dif.
AUTOMATION & CONTROL SYSTEMS	3.7	3.7	4	3.7	3.9	4	4	3.9	8	4.1	4.3	3.9	0.4
BEHAVIORAL SCIENCES	4.5	4.7	4.5	4.8	5.1	5	4.8	5.4	6	5.8	5.1	5	0.1
BIOCHEMICAL RESEARCH METHODS	5.1	5	5.4	5.3	5.7	5.7	6	5.7	6	5.8	5.5	5.5	0.0
BIOCHEMISTRY & MOLECULAR BIOLOGY	6.2	6.4	6.8	6.6	6.7	8.1	7.7	7.7	7.3	8.3	7.2	6.9	0.3
BIODIVERSITY CONSERVATION	4.8	4.7	6	4.9	6.5	5.2	6.4	6.8	7.4	7.5	6.1	5.8	0.3
BIOLOGY	5.1	6.9	5.6	5.6	5.5	6.1	6.6	9.2	8.9	8.4	6.9	6.5	0.4
BIOPHYSICS	5.5	5.3	6.3	5.6	5.8	6.3	6.2	6.6	6.7	7.2	6.1	5.9	0.2
BIOTECHNOLOGY & APPLIED MICROBIOLOGY	5.5	5.6	5.7	6.1	6	7	6.8	6.7	6.9	6.4	6.3	6.2	0.1
BUSINESS	2.5	2.5	2.8	2.6	2.7	2.8	2.8	2.8	2.8	3	2.7	2.7	0.0
BUSINESS, FINANCE	2.5	2.3	2.4	2.5	2.6	2.6	2.6	2.8	2.8	2.8	2.6	2.5	0.1
CARDIAC & CARDIOVASCULAR SYSTEMS	7.6	8.5	8.4	8.6	8.9	8.7	9.6	10	10.8	11.4	9.5	9	0.5
CELL & TISSUE ENGINEERING	10.1	7.8	6.8	7	7.5	7.9	8.4	9	9.4	8.6	8.2	8.1	0.1
CELL BIOLOGY	6.5	6.7	7	8.8	7.1	8.5	8.4	11.8	9.2	9.9	8.6	8.3	0.3
CHEMISTRY, ANALYTICAL	4.7	4.7	4.7	4.8	4.8	4.9	4.9	5.1	5.1	5.4	4.9	4.8	0.1
CHEMISTRY, APPLIED	4.9	4.9	5.1	5.3	5.2	5.2	5.3	5.4	5.5	5.6	5.3	5.2	0.1
CHEMISTRY, INORGANIC & NUCLEAR	5.4	6	5.7	5.7	6	6.1	6	6.2	5.9	6.1	5.9	5.8	0.1
CHEMISTRY, MEDICINAL	6.2	6.5	6.6	6.5	6.4	6.8	6.8	6.9	7.2	7.2	6.7	6.6	0.1
CHEMISTRY, MULTIDISCIPLINARY	5.2	5.2	5.5	5.7	5.7	5.9	6.1	6.1	6.1	6.2	5.9	5.8	0.1
CHEMISTRY, ORGANIC	4.9	5	5.1	5.1	5.1	5.4	5.3	5.3	5.4	5.3	5.2	5.1	0.1
CHEMISTRY, PHYSICAL	4.9	4.9	5	5.2	5.3	5.3	6.1	5.7	5.8	5.9	5.4	5.3	0.1
CLASSICS	1	1.1	1.1	1.2	1.1	1.1	1	1.1	1.1	1.1	1.1	1.1	0.0
CLINICAL NEUROLOGY	6.5	6.9	7.1	7.4	7.7	8.4	8.5	8.5	9.8	10.3	8.3	7.9	0.4
COMMUNICATION	2.2	2.2	2.1	2.1	2.3	2.3	2.4	2.4	2.4	2.5	2.3	2.2	0.1
COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE	3.7	3.8	3.7	3.8	3.8	3.8	3.9	3.9	4	4	3.8	3.8	0.0
COMPUTER SCIENCE, CYBERNETICS	3.2	3.5	3.7	3.7	3.8	4.2	3.7	3.9	3.8	4	3.8	3.8	0.0
COMPUTER SCIENCE, HARDWARE & ARCHITECTURE	4.4	4.1	3.9	4.1	4.3	4.2	4.2	4.4	4.6	4.5	4.3	4.3	0.0
COMPUTER SCIENCE, INFORMATION SYSTEMS	3.9	3.7	3.7	3.9	3.9	4	4.2	4	4.2	4.5	4	3.9	0.1
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS	3.9	3.7	3.9	3.9	4.1	4.3	4.4	4.2	4.1	6	4.3	4.1	0.2
COMPUTER SCIENCE, SOFTWARE ENGINEERING	3.6	3.7	3.6	3.9	3.9	3.7	4.1	4	4.3	4	3.9	3.8	0.1
COMPUTER SCIENCE, THEORY & METHODS	3.6	3.6	3.7	3.8	3.9	3.7	3.9	3.9	3.9	4.1	3.8	3.8	0.0
CONSTRUCTION & BUILDING TECHNOLOGY	3.5	3.6	3.7	3.7	4	3.9	3.7	4.1	4	4.2	3.9	3.8	0.1

Tabla 1: Índices de coautoría por año y Categoría WoS (... continuación)

CATEGORÍA WOS	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2009-2018	[2008-2017]	Dif.
CRIMINOLOGY & PENOLOGY	2.4	2.8	3.6	2.4	4	3.9	3.5	3	3.2	3.2	3.3	3.4	-0.1
CRITICAL CARE MEDICINE	6.7	7.1	7.3	7.5	7.9	8.1	8.7	8	10.2	10	8.3	8	0.3
CRYSTALLOGRAPHY	5.2	5.4	5.5	5.7	5.6	5.9	5.6	5.6	5.6	5.8	5.6	5.6	0.0
CULTURAL STUDIES	2.1	1.1	1.1	1.2	1.4	1.6	1.7	1.7	1.3	1.9	1.6	1.5	0.1
DANCE	-	-	9	1	4	-	-	-	3	1	3.2	4.2	-1.0
DEMOGRAPHY	1.9	2.7	2.4	2.5	2.4	2.9	2.7	2.5	2.8	2.6	2.6	2.6	0.0
DENTISTRY, ORAL SURGERY & MEDICINE	4.8	4.9	4.9	5.4	5.2	5.5	5.7	5.7	5.8	6.5	5.5	5.3	0.2
DERMATOLOGY	6.1	6	6.3	7.5	6.8	6.8	7.3	7.2	8.3	8	7.2	7	0.2
DEVELOPMENT STUDIES	2.3	2.1	2.5	2.8	2.7	2.6	2.5	2.6	2.9	2.7	2.7	-	-
DEVELOPMENTAL BIOLOGY	5.1	5.6	5.8	5.2	6.3	6.3	6.3	5.9	6	5.8	5.8	5.8	0.0
ECOLOGY	5	5.1	5.4	5	5.9	6.1	6	6.5	7.6	8.4	6.2	5.8	0.4
ECONOMICS	2.4	2.3	2.5	2.6	2.7	2.7	2.7	2.9	2.7	2.9	2.7	2.6	0.1
EDUCATION & EDUCATIONAL RESEARCH	2.3	2.3	2.4	2.6	2.7	2.7	2.8	2.8	2.8	2.9	2.7	2.6	0.1
EDUCATION, SCIENTIFIC DISCIPLINES	3.8	3.3	3.6	3.8	3.8	3.9	3.7	4.2	3.8	4.4	3.8	3.8	0.0
EDUCATION, SPECIAL	6.3	4.9	5.9	4.5	4.9	4.6	5	5.2	4	4.4	4.8	4.8	0.0
ELECTROCHEMISTRY	5.1	4.9	5	5	5.1	5.1	5.1	5.4	5.2	5.4	5.1	5	0.1
EMERGENCY MEDICINE	5.2	4.6	5.2	4.8	5.2	5.4	9.9	5.9	7.4	6.8	6.4	6	0.4
ENDOCRINOLOGY & METABOLISM	7	7.4	7.9	8.1	7.6	8.6	9.4	8.5	8	8	8	8	0.0
ENERGY & FUELS	4.1	4.3	4.6	4.4	4.6	4.7	4.7	4.7	4.8	4.9	4.6	4.6	0.0
ENGINEERING, AEROSPACE	4.5	3.6	3.8	4.1	3.9	3.7	5.2	3.6	3.9	7.4	4.6	4	0.6
ENGINEERING, BIOMEDICAL	5.5	5.5	5.7	5.9	6.2	6.2	6.2	6.1	6.1	6.7	6.1	5.9	0.2
ENGINEERING, CHEMICAL	4.5	4.5	4.6	4.6	4.7	4.8	4.8	4.9	5.1	5.2	4.8	4.7	0.1
ENGINEERING, CIVIL	3.6	3.8	3.8	3.9	3.9	4.2	3.9	4	4.1	4.3	4	3.9	0.1
ENGINEERING, ELECTRICAL & ELECTRONIC	4.3	4.4	4.3	4.4	4.4	4.6	4.5	4.6	5.2	4.7	4.5	4.4	0.1
ENGINEERING, ENVIRONMENTAL	4.6	4.5	5	4.7	5	5	4.9	4.9	5.1	5.2	4.9	4.8	0.1
ENGINEERING, GEOLOGICAL	3.9	3.8	4.1	3.8	3.5	4.8	4.5	4.2	4.3	4.7	4.2	4.1	0.1
ENGINEERING, INDUSTRIAL	3.1	3.2	3.2	3.4	3.6	3.4	3.4	3.7	3.6	3.6	3.4	3.4	0.0
ENGINEERING, MANUFACTURING	3.7	3.7	3.6	3.8	3.9	4.3	3.8	4.1	4.2	4.2	3.9	3.9	0.0
ENGINEERING, MARINE	4.1	3.4	3.8	3.4	3.4	3.9	3.8	3.5	3.8	3.8	3.7	3.6	0.1
ENGINEERING, MECHANICAL	3.7	3.6	3.9	4	3.9	3.9	4.1	4	4.1	4.1	4	3.9	0.1
ENGINEERING, MULTIDISCIPLINARY	3.7	3.6	3.7	3.8	3.8	3.8	3.9	3.8	3.8	6.5	4.1	3.7	0.4
ENGINEERING, OCEAN	4.5	3.4	4.1	4	4.9	5.1	3.9	4.6	4.4	4.3	4.4	4.3	0.1
ENGINEERING, PETROLEUM	4.5	4	4.3	5.3	5	2.8	5.6	4.4	3.5	4	4.4	4.3	0.1
ENTOMOLOGY	4.2	4.5	4.8	4.2	4.6	4.4	5.1	5.7	4.9	4.9	4.7	4.6	0.1

Tabla 1: Índices de coautoría por año y Categoría WoS (... continuación)

CATEGORÍA WOS	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2009-2018	[2008-2017]	Dif.
ENVIRONMENTAL SCIENCES	4.7	5	5.4	5.2	5.6	5.5	6.1	5.9	6	7.1	5.8	5.5	0.3
ENVIRONMENTAL STUDIES	2.9	2.7	2.9	3.3	3.4	3.8	4.4	4.1	3.7	4.6	3.8	3.5	0.3
ERGONOMICS	3.9	3.4	3.5	4	3.7	4.1	3.7	3.9	3.9	3.8	3.8	3.8	0.0
ETHICS	2	2.6	4.3	2.4	2.3	3.2	2.7	2.9	2.4	4.2	2.9	2.7	0.2
ETHNIC STUDIES	1.4	1.1	1.2	2.2	2.2	1.8	2.2	2.1	1.9	1.6	1.8	1.9	-0.1
EVOLUTIONARY BIOLOGY	9.7	5.9	5.7	5.5	6	6.7	6.8	6.9	8.8	8	7	6.7	0.3
FAMILY STUDIES	3.6	4.5	2.4	3.1	3.7	3.5	3.8	3.9	4	3.9	3.6	3.6	0.0
FILM, RADIO, TELEVISION	1.1	1.6	1.4	1.2	1.7	1.7	1.4	1.4	1.7	1.5	1.6	1.6	0.0
FISHERIES	5.2	5.3	5.6	5.7	5.7	5.7	5.7	6.1	6.1	6.5	5.8	5.7	0.1
FOLKLORE	1.1	1.2	1.2	1.5	1.2	1.1	1.4	1.5	1.4	1.8	1.4	1.3	0.1
FOOD SCIENCE & TECHNOLOGY	4.9	4.9	5	5.2	5.2	5.3	5.3	5.5	5.5	5.9	5.3	5.2	0.1
FORESTRY	4.1	4.5	4.3	4.3	4.5	5.2	5.4	6.7	6.1	5.8	5.2	5	0.2
GASTROENTEROLOGY & HEPATOLOGY	7.2	8	8.1	8	9.7	9.5	9.7	11.5	13.4	12.6	10.2	9.5	0.7
GENETICS & HEREDITY	8.3	8.5	10.3	11	10.9	12.2	12.4	11.7	13	12.6	11.1	10.7	0.4
GEOCHEMISTRY & GEOPHYSICS	5.3	5	5.7	5.5	5.7	5.7	5.9	6.4	6.1	7.5	5.9	5.6	0.3
GEOGRAPHY	1.9	2.1	2.4	2.3	2.5	2.7	2.6	2.7	2.7	2.8	2.5	2.4	0.1
GEOGRAPHY, PHYSICAL	4.5	5.4	5.2	5.1	5.5	5.8	5.7	6	5.8	6.6	5.7	5.5	0.2
GEOLOGY	4.8	4.8	4.9	5.2	4.8	5.3	5	5.2	5	5	5	5	0.0
GEOSCIENCES, MULTIDISCIPLINARY	5	5.3	4.9	5.4	5.8	5.7	6	6	6	6.8	5.8	5.6	0.2
GERIATRICS & GERONTOLOGY	6.7	6.5	7.1	7.4	7.3	7.8	8.3	8.1	9.7	8.8	8	7.9	0.1
GERONTOLOGY	6	5.2	5.7	4.9	6	5.5	6	6.6	6.6	6.5	6	5.8	0.2
GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY	3.9	3.8	4.2	4.2	4.3	4.3	4.6	4.5	4.6	4.4	4.4	4.4	0.0
HEALTH CARE SCIENCES & SERVICES	5.4	5.2	5.6	5.4	5.7	5.8	5.7	6.2	6.5	6.4	5.8	5.6	0.2
HEALTH POLICY & SERVICES	5.2	5.4	5	5.8	5.9	6	5.9	6.8	6	6.4	6	5.8	0.2
HEMATOLOGY	10.9	10.5	10.9	11.1	11.2	13	13.5	14	13.6	14.3	12.7	12.3	0.4
HISTORY	1.3	1.2	1.2	1.2	1.4	1.4	1.3	1.3	1.4	1.3	1.3	1.3	0.0
HISTORY & PHILOSOPHY OF SCIENCE	1.3	1.5	1.3	1.6	1.6	1.5	1.5	1.6	1.6	1.7	1.5	1.5	0.0
HISTORY OF SOCIAL SCIENCES	1.5	1.7	1.6	1.8	1.5	1.4	1.5	1.6	1.5	1.7	1.6	1.6	0.0
HORTICULTURE	5.1	5.3	5.1	5	5.3	5.7	5.7	6	5.4	5.3	5.4	5.4	0.0
HOSPITALITY, LEISURE, SPORT & TOURISM	2.5	2.8	2.6	2.8	2.8	2.7	3.6	3.2	3.2	3.2	3	3	0.0
HUMANITIES, MULTIDISCIPLINARY	1.2	1.2	1.5	1.3	1.3	1.3	1.4	1.4	1.5	1.7	1.4	1.3	0.1
IMAGING SCIENCE & PHOTOGRAPHIC TECHNOLOGY	4.4	4.8	4.9	4.9	4.9	4.9	4.9	5.5	6	6.3	5.2	5	0.2
IMMUNOLOGY	8.2	7.3	8.3	8.9	9.1	9	9.7	10	10.4	11.1	9.4	9	0.4
INDUSTRIAL RELATIONS & LABOR	2.9	2.5	2.4	2.3	2.7	2.5	2.7	2.7	2.5	2.4	2.5	2.5	0.0
INFECTIOUS DISEASES	8	7.3	8.1	8	9.7	8.9	10.3	9.9	10.6	10.9	9.3	9	0.3

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CATEGORÍA WOS	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2009-2018	[2008-2017]	Dif.
INFORMATION SCIENCE & LIBRARY SCIENCE	2.8	2.5	2.7	2.7	2.8	2.8	2.8	2.8	3.1	2.9	2.8	2.8	0.0
INSTRUMENTS & INSTRUMENTATION	8.8	139.7	23.7	26.4	34	39.6	31.9	61.4	41.2	39.5	44	37.7	6.3
INTEGRATIVE & COMPLEMENTARY MEDICINE	5.9	5.8	5.3	5.6	5.8	5.8	6.1	6.5	5.7	5.9	5.8	5.8	0.0
INTERNATIONAL RELATIONS	1.6	1.5	1.4	2.2	2.3	2.5	2.2	3	2.6	4.3	2.3	2	0.3
LANGUAGE & LINGUISTICS	1.7	1.3	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	0.0
LAW	1.4	1.4	1.4	1.6	1.6	1.8	2	1.8	2.1	2	1.7	1.6	0.1
LIMNOLOGY	4.3	4.4	4.9	4.5	4.6	4.4	4.5	5.5	5.5	5.6	4.8	4.8	0.0
LINGUISTICS	1.6	1.6	1.5	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.7	0.0
LITERARY REVIEWS	1	1	1	1	1	1	1	1	1.2	1	1	1.1	-0.1
LITERARY THEORY & CRITICISM	1.1	1.2	1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.1	1.1	0.0
LITERATURE	1.1	1.1	1.1	1.1	1.2	1.2	1	1.1	1.1	1.1	1.1	1.1	0.0
LITERATURE, AFRICAN, AUSTRALIAN, CANADIAN	1	1	1	1.2	1	1	1	1	1	1	1	1	0.0
LITERATURE, AMERICAN	-	1	1	1	-	1	1	-	1	1	1	1	0.0
LITERATURE, BRITISH ISLES	1	1	1	1	1	1	1.2	1	1	1	1	1	0.0
LITERATURE, GERMAN, DUTCH, SCANDINAVIAN	-	1	1	1	1	1	1	1	1	1	1	1	0.0
LITERATURE, ROMANCE	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	0.0
LITERATURE, SLAVIC	-	-	-	1	-	-	-	2	-	-	1.5	1.3	0.2
LOGIC	2.8	2.2	2.7	3.1	2.8	2.5	3.4	3.5	3.6	3.2	3	3	0.0
MANAGEMENT	2.7	2.7	2.7	2.8	3.1	2.8	3.2	2.9	3.1	3	2.9	2.9	0.0
MARINE & FRESHWATER BIOLOGY	4.6	4.9	4.8	5.1	5.3	5.4	5.7	5.7	6.2	5.9	5.4	5.3	0.1
MATERIALS SCIENCE, BIOMATERIALS	5.9	6.1	6	6.4	6.2	6.3	6.6	6.8	6.9	7.2	6.5	6.3	0.2
MATERIALS SCIENCE, CERAMICS	4.6	5.2	4.7	4.7	4.9	5	5	5.2	5.5	5.2	5	5	0.0
MATERIALS SCIENCE, CHARACTERIZATION & TESTING	3.8	4	4	4.5	4.3	4.2	3.9	4.2	4.7	4.7	4.2	4.1	0.1
MATERIALS SCIENCE, COATINGS & FILMS	5.2	5.4	5.4	5.2	5.4	5.7	5.7	5.8	5.4	6.1	5.5	5.5	0.0
MATERIALS SCIENCE, COMPOSITES	4.3	4.1	4	4.5	4.4	4.6	4.1	4.5	4.6	4.8	4.4	4.4	0.0
MATERIALS SCIENCE, MULTIDISCIPLINARY	5.2	5.2	5.6	5.5	5.6	5.7	5.8	6	6	6	5.7	5.6	0.1
MATERIALS SCIENCE, PAPER & WOOD	4.8	4.6	4.8	5	4.8	4.6	4.8	5.2	5.2	5.1	5	4.9	0.1
MATERIALS SCIENCE, TEXTILES	4.5	5.3	5.1	4.7	5.3	5.2	5.4	5.2	5.5	6.3	5.3	5.2	0.1
MATHEMATICAL & COMPUTATIONAL BIOLOGY	4.3	4.1	4.8	4.3	4.5	5.5	5.3	4.6	4.9	5.1	4.8	4.7	0.1
MATHEMATICS	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.7	2.6	2.7	2.6	2.5	0.1

Tabla 1: Índices de coautoría por año y Categoría WoS (... continuación)

CATEGORÍA WOS	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2009-2018	[2008-2017]	Dif.
MATHEMATICS, APPLIED	2.6	2.8	2.8	2.8	3	2.9	2.9	2.9	2.9	3	2.9	2.8	0.1
MATHEMATICS, INTERDISCIPLINARY APPLICATIONS	2.8	3.2	3	3.3	3.2	3.2	3.4	3.2	3.4	3.5	3.2	3.2	0.0
MECHANICS	3.4	3.5	3.5	3.4	3.6	3.7	3.7	3.7	3.8	3.8	3.6	3.6	0.0
MEDICAL ETHICS	2	4.7	2.2	2.2	2.6	2.8	3.2	5.7	2.3	9.4	3.5	3.1	0.4
MEDICAL INFORMATICS	5.2	4.4	4.9	4.8	5	5.8	5.2	5.5	5.7	6.1	5.4	5.2	0.2
MEDICAL LABORATORY TECHNOLOGY	7.2	8.2	6.9	7.3	6.5	7.1	7.1	7.4	7.4	8.6	7.4	7	0.4
MEDICINE, GENERAL & INTERNAL	5.6	6	6.4	7.7	7.2	8.8	12	15.9	21.1	21.3	12.7	10.5	2.2
MEDICINE, LEGAL	8.8	5.9	8.1	6.6	7.3	10.9	7.4	9.2	6.8	8.3	7.9	7.9	0.0
MEDICINE, RESEARCH & EXPERIMENTAL	7.4	7.6	8.1	8.9	7.7	8.4	8.9	9	9.1	9.7	8.6	8.3	0.3
MEDIEVAL & RENAISSANCE STUDIES	1	1.1	1	1	1	1.2	1.2	1.1	1.1	1.1	1.1	1.1	0.0
METALLURGY & METALLURGICAL ENGINEERING	4.8	4.8	4.8	4.8	5	5	5.3	5.1	5.5	5.5	5.1	5	0.1
METEOROLOGY & ATMOSPHERIC SCIENCES	5.2	6	5.8	7.4	8.6	9.3	9.6	9	8.5	11.3	8.3	7.7	0.6
MICROBIOLOGY	6.3	6.1	6.7	6.8	7.5	7.2	7.8	7.6	8	8	7.3	7.1	0.2
MICROSCOPY	4.8	4.4	6.1	5.9	5	5.5	5.7	4.9	5.2	5.9	5.4	5.4	0.0
MINERALOGY	4.7	4.3	4.7	4.5	4.6	4.9	5.3	5.5	5.9	5.6	5.1	5	0.1
MINING & MINERAL PROCESSING	5.1	4.8	4.2	4.3	3.9	4.7	5	5.5	5.5	5.6	5	4.8	0.2
MULTIDISCIPLINARY SCIENCES	13.9	10.1	12.7	14.9	8.3	9	11.8	9.2	10.4	10.4	10.7	10.6	0.1
MUSIC	2.1	2.3	2.9	2	2.1	2.5	1.8	2.1	1.8	2.2	2.1	2.2	-0.1
MYCOLOGY	5.6	4.9	5.8	5.6	6.6	7.4	9.2	9.4	10	13.3	7.7	6.8	0.9
NANOSCIENCE & NANOTECHNOLOGY	5.5	5.5	5.9	6	6.1	6.3	6.6	6.9	6.8	7	6.4	6.2	0.2
NEUROIMAGING	6.8	6.8	7.2	6.8	7.8	12.6	8.8	8.7	10.1	9.2	8.8	8.7	0.1
NEUROSCIENCES	6.1	6.1	6.3	6.6	6.6	7.1	7.1	7.8	7.9	8.5	7.1	6.8	0.3
NUCLEAR SCIENCE & TECHNOLOGY	12.5	22	17.9	13.5	15.3	10	25	93.5	231	181.1	62.4	14.3	48.1
NURSING	4	5.7	4.6	4.8	5	4.7	5.5	5.4	5.3	6.1	5.3	5.1	0.2
NUTRITION & DIETETICS	5.9	6.4	6.9	6.3	6.8	7	6.7	7.7	7.5	8	7	6.8	0.2
OBSTETRICS & GYNECOLOGY	5.4	6	6.2	6.4	6.8	6.4	8	8.8	7.8	7.4	7.1	6.9	0.2
OCEANOGRAPHY	5.3	5.2	6	5.9	5.5	5.4	6	6.3	6	6.2	5.8	5.6	0.2
ONCOLOGY	9.5	9.2	10	10.3	11.1	12.2	13.9	12.9	15.5	13.9	12.3	11.5	0.8
OPERATIONS RESEARCH & MANAGEMENT SCIENCE	3	3.1	3.1	3.4	3.5	3.3	3.4	3.3	3.4	3.4	3.3	3.3	0.0
OPHTHALMOLOGY	5.1	5.5	5.5	5.2	5.8	5.9	6	5.9	6.4	6	5.8	5.7	0.1
OPTICS	4.7	4.7	4.6	4.9	6	4.9	8.7	5.3	5.4	9.8	5.9	5	0.9
ORNITHOLOGY	4	4.9	4.5	4.5	4.8	4.1	4.7	4.6	5.5	4.3	4.6	4.5	0.1
ORTHOPEDICS	5	6.1	6.3	5.8	6	5.8	6	5.9	6.7	7.3	6.2	6	0.2
OTORHINOLARYNGOLOGY	5.3	6.3	7.7	7	7.4	7.7	7.2	9	8.3	9.6	7.7	7.4	0.3
PALEONTOLOGY	4	4.6	4.6	4.7	4.5	4.6	5.1	4.7	5.1	5.2	4.7	4.6	0.1
PARASITOLOGY	6.5	7.3	7	7.6	7.1	7.1	8.1	8.6	8.6	8.9	7.8	7.6	0.2

Tabla 1: Índices de coautoría por año y Categoría WoS (... continuación)

CATEGORÍA WOS	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2009-2018	[2008-2017]	Dif.
PATHOLOGY	7.3	7.3	7.6	8	7.8	8.7	8.3	8.5	9.4	10.4	8.2	7.9	0.3
PEDIATRICS	6.5	7.1	6.4	6.6	7.1	7.3	6.5	7.6	8.2	8.4	7.3	7.1	0.2
PERIPHERAL VASCULAR DISEASE	7.4	8.1	8.3	8.1	8.8	8.7	9.2	9.8	9.8	9.7	8.8	8.5	0.3
PHARMACOLOGY & PHARMACY	6	5.9	6.3	6.4	6.7	6.8	6.7	7.4	7.4	7.4	6.8	6.6	0.2
PHILOSOPHY	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.1	0.1
PHYSICS, APPLIED	5.5	5.5	5.6	5.7	6.4	6.2	8.1	21.2	8.3	16.8	9	6	3.0
PHYSICS, ATOMIC, MOLECULAR & CHEMICAL	4.3	4.4	4.5	4.6	4.8	4.8	10.3	8.6	4.8	9.2	6	4.6	1.4
PHYSICS, CONDENSED MATTER	5.2	5.3	5.4	5.5	5.8	6.1	6	6.2	6.1	6.4	5.8	5.7	0.1
PHYSICS, FLUIDS & PLASMAS	4.9	3.9	5	3.4	9.3	3.8	122.9	125.2	183.2	216.9	75.3	6.8	68.5
PHYSICS, MATHEMATICAL	3.2	3.2	3.2	3	3.3	3.4	3.2	3.3	4.5	6.6	3.7	3.3	0.4
PHYSICS, MULTIDISCIPLINARY	45.3	66.7	139.6	165.3	115.6	117.4	124.7	130.1	156.4	153.5	122.2	106.3	15.9
PHYSICS, NUCLEAR	23.6	57.2	323.2	579	386.6	253.6	367.5	463.1	416.1	550.2	349.5	306.9	42.6
PHYSICS, PARTICLES & FIELDS	79.9	121.1	366.8	561.7	452.1	464.9	566.5	627.2	586.4	648.4	471.7	425	46.7
PHYSIOLOGY	5.6	5.4	6.1	5.8	5.7	5.8	6	6.6	6.6	6.7	6	5.9	0.1
PLANT SCIENCES	5.2	5	5.3	5.3	5.8	5.7	6	6.4	6.4	6.7	5.8	5.7	0.1
POETRY	1	-	-	-	-	1	-	1	1	-	1	1	0.0
POLITICAL SCIENCE	1.4	1.4	1.6	1.5	1.5	1.8	1.6	1.7	1.7	1.9	1.6	1.6	0.0
POLYMER SCIENCE	4.7	4.7	4.8	5.1	4.9	5.2	5.4	5.3	5.4	5.7	5.1	5	0.1
PRIMARY HEALTH CARE	4.2	5	5.9	6.2	5.6	5.8	5.8	5.7	6.1	5.6	5.7	5.4	0.3
PSYCHIATRY	6.8	7.1	6.8	7.1	7.4	8.8	7.3	8.6	8.7	9.7	8	7.7	0.3
PSYCHOLOGY	4.4	4.2	4.3	4.4	4.5	4.4	4.4	5	5.2	6.2	4.7	4.5	0.2
PSYCHOLOGY, APPLIED	4	3.7	3.7	3.6	3.7	3.8	3.7	3.6	3.9	4	3.8	3.8	0.0
PSYCHOLOGY, BIOLOGICAL	4.4	4.4	4.2	4.6	4.4	4.3	4.2	4.9	5	5.4	4.6	4.4	0.2
PSYCHOLOGY, CLINICAL	5.1	5.1	5	5.2	5	5.5	5.4	5.2	5.5	6.5	5.4	5.2	0.2
PSYCHOLOGY, DEVELOPMENTAL	4.6	5.4	4.4	5	5.1	5.3	5	5.7	6.2	5.5	5.3	5.1	0.2
PSYCHOLOGY, EDUCATIONAL	3.2	3.3	3.2	3.3	3.5	3.8	3.7	4	4	3.7	3.6	3.6	0.0
PSYCHOLOGY, EXPERIMENTAL	3.7	3.9	3.6	4	4	3.8	3.9	4.5	4.2	4.6	4	3.9	0.1
PSYCHOLOGY, MATHEMATICAL	2.8	2.7	2.8	2.6	3	3	3	4.8	2.8	4.8	3.2	3	0.2
PSYCHOLOGY, MULTIDISCIPLINARY	3.7	3.5	3.5	3.7	3.7	3.9	3.9	4.5	4.6	4.5	4	3.9	0.1
PSYCHOLOGY, PSYCHOANALYSIS	1	1	-	-	13	11	1	2.5	1	2.7	3.1	3.3	-0.2
PSYCHOLOGY, SOCIAL	3.6	3.7	3.8	5.2	6.5	4.8	5	5	5.3	5.4	4.9	4.7	0.2
PUBLIC ADMINISTRATION	2.2	2.2	2.4	2.2	2.4	2.6	2.6	2.6	3.3	2.6	2.5	2.5	0.0
PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH	5.9	6.2	6.4	6.7	7	6.8	7.5	7.6	7.6	12.6	7.8	6.8	1.0
QUANTUM SCIENCE & TECHNOLOGY	10.1	14.2	9.8	24.4	4.5	63	28.3	24.9	36.5	29.9	23.1	-	-

Tabla 1: Índices de coautoría por año y Categoría WoS (... continuación)

CATEGORÍA WOS	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2009-2018	[2008-2017]	Dif.
RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING	7	7	7.3	7	7.1	7.7	8	9.1	9	14.6	8.6	7.6	1.0
REGIONAL & URBAN PLANNING	2.3	2.6	2.7	2.8	3.4	3.2	2.7	3	3.2	3	3	-	-
REHABILITATION	5.1	4.9	5.2	5.3	5.3	5.3	6.2	5.9	6.5	5.9	5.7	5.6	0.1
RELIGION	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.2	1.2	1.1	1.1	0.0
REMOTE SENSING	4.6	4.4	5	5.2	4.9	4.8	5	5.5	5.7	6.1	5.3	5.1	0.2
REPRODUCTIVE BIOLOGY	6.2	6.1	6.1	6.2	6.4	6.4	6.6	7	6.8	6.7	6.5	6.4	0.1
RESPIRATORY SYSTEM	7	7	8.1	8.3	8.4	9.7	8.8	8.8	10.9	9.7	9	8.7	0.3
RHEUMATOLOGY	9.2	9.4	13.2	11.3	10.5	11.7	12.2	12.6	12.4	14.3	12.1	11.7	0.4
ROBOTICS	3.7	3.8	4	4.1	4	3.8	4	4.4	4.3	4.6	4.1	4	0.1
SOCIAL ISSUES	2	2.5	2.1	2	2.2	2.4	2	2.4	2.4	2.7	2.3	2.2	0.1
SOCIAL SCIENCES, BIOMEDICAL	3.6	5	3.1	4.2	3.8	4.6	4.7	6.2	4.6	6.3	4.7	4.4	0.3
SOCIAL SCIENCES, INTERDISCIPLINARY	2.7	2.9	3	2.9	2.8	2.9	2.7	3.1	3.2	3.2	3	2.9	0.1
SOCIAL SCIENCES, MATHEMATICAL METHODS	2.3	2.3	2.5	2.9	2.5	2.5	2.7	2.6	2.9	3.4	2.7	2.6	0.1
SOCIAL WORK	3.1	3	3.1	3.5	3.5	2.8	3.4	3.8	3.4	3.4	3.4	3.3	0.1
SOCIOLOGY	1.9	1.8	2.1	2.3	2.2	2.2	2.2	2.4	2.4	2.3	2.2	2.2	0.0
SOIL SCIENCE	4.2	4.6	4.4	4.9	4.9	4.9	5	5.3	5.1	5.5	4.9	4.8	0.1
SPECTROSCOPY	4.6	4.5	4.8	5	4.7	5	4.8	5.4	4.8	5.4	4.9	4.8	0.1
SPORT SCIENCES	4.7	5.1	5.4	5.1	5.2	5.1	5.2	5.5	5.5	5.7	5.3	5.2	0.1
STATISTICS & PROBABILITY	2.9	2.9	2.9	3.2	3.2	3.2	3.3	3.1	3.3	3.5	3.2	3.1	0.1
SUBSTANCE ABUSE	5.2	5	5.4	6.1	5.8	6.3	6.4	6.7	6.9	13.2	7.3	6.1	1.2
SURGERY	7	6.4	7.1	7.2	7.5	7.4	7.7	8	14.5	8.2	8.3	7.7	0.6
TELECOMMUNICATIONS	4.3	4.2	4.1	4.3	4.2	4.6	4.5	4.5	4.6	4.6	4.4	4.4	0.0
THEATER	-	1	1	1.2	1	1.3	1	1.1	3.2	1.1	1.6	1.8	-0.2
THERMODYNAMICS	3.9	4	4.1	4.1	4.2	4.3	4.3	4.2	4.4	4.4	4.2	4.2	0.0
TOXICOLOGY	6	5.9	6.3	6.1	6.7	6.5	6.5	7.2	6.9	6.8	6.5	6.4	0.1
TRANSPLANTATION	8.9	8.8	9.2	9.1	9.7	10.2	10.1	10.9	10.9	10.4	9.9	9.9	0.0
TRANSPORTATION	3	3	3.2	3.4	3.3	3.6	3.4	3.6	3.2	3.8	3.4	3.3	0.1
TRANSPORTATION SCIENCE & TECHNOLOGY	3.6	3.8	3.5	3.7	3.6	3.6	3.7	4	3.8	4	3.7	3.7	0.0
TROPICAL MEDICINE	7.8	9.1	7.2	9.2	7.8	8	9.5	8.4	9.9	9.6	8.8	8.6	0.2
URBAN STUDIES	2.3	2.6	2.6	2.7	3.1	3	2.6	3.1	3.2	3.2	2.9	2.8	0.1
UROLOGY & NEPHROLOGY	6.8	7.1	7.1	6.9	7.8	8.5	8	8.8	8.9	9.1	8	7.8	0.2
VETERINARY SCIENCES	6.1	6.1	6.1	6.3	6.6	6.4	6.6	6.7	6.7	6.8	6.5	6.4	0.1
VIROLOGY	7	6.8	7.7	8.1	8.4	8.6	7.6	9	11	10.2	8.4	8.2	0.2
WATER RESOURCES	4.5	4.4	4.4	4.5	4.7	4.8	4.7	4.9	5.1	5	4.7	4.7	0.0
WOMEN'S STUDIES	2.6	3.3	2.9	2.4	2.2	2.2	2.8	2.7	3.2	3	2.7	2.7	0.0
ZOOLOGY	4.3	4.5	5	4.7	4.6	4.5	4.7	4.8	4.9	4.8	4.7	4.6	0.1

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