



上海交通大学

SHANGHAI JIAO TONG UNIVERSITY



Weighing International Academic Awards

Center for World-Class Universities

Shanghai Jiao Tong University

Shanghai, China

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Outline

 **Introduction**

 **Methodology**

 **Results**



Introduction

Backgrounds

- Awards are prevalent in all societies and at all times as societal symbols of recognition. Even in the rational academic world, there is an elaborate and extensive system of awards. (Frey, 2006)
- Numerous academic awards have been established to provide incentives and motivation for new academic work and to reward for past excellent academic accomplishment to individuals.



Introduction

Backgrounds

- Academic awards, especially prestigious international academic awards, have played important roles in seeking excellence by assessing and ranking academic institutions, such as Shanghai Ranking, U.S. National Research Council (NRC)'s Assessment of Research-Doctorate Programs.
- However, little is known about the reputations of academic awards.



Introduction

Research purposes

- To establish a comprehensive and balanced list of international academic awards.
- To weigh their relative reputations in relation to one another.



Introduction

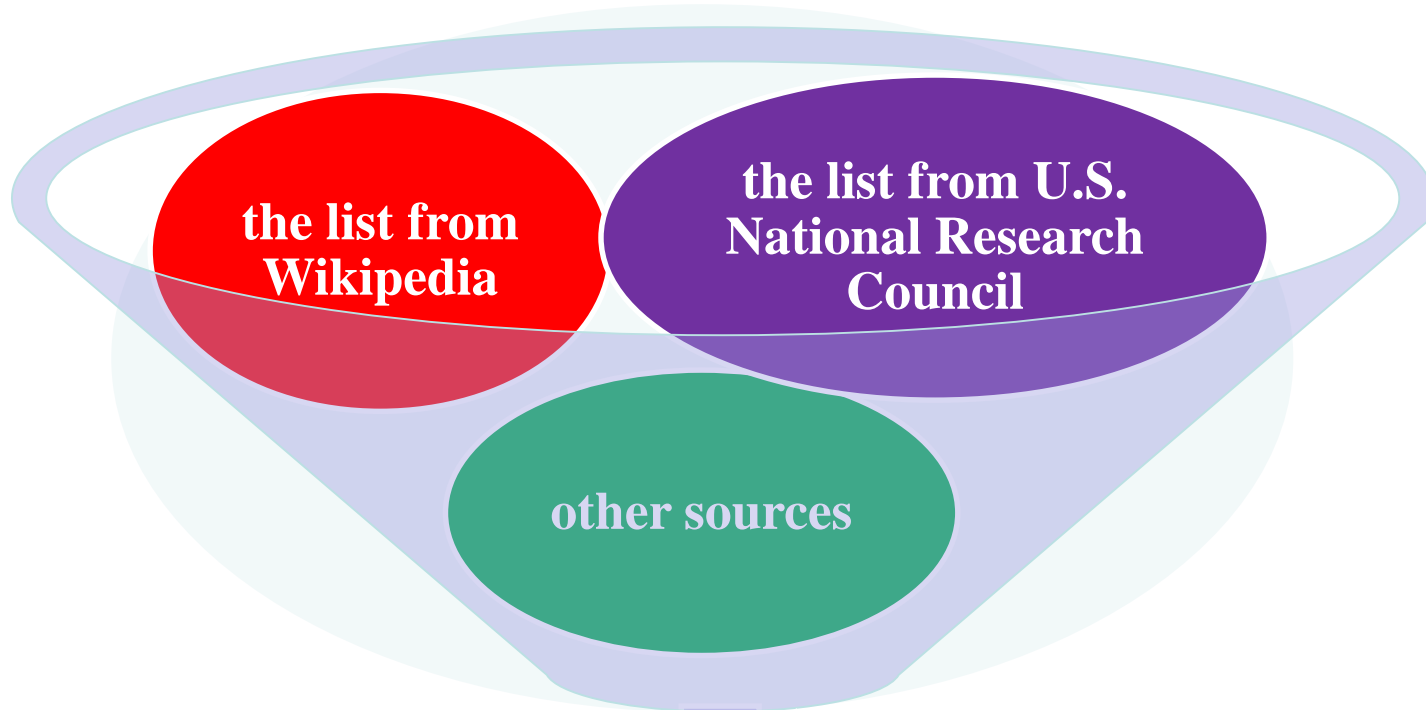
⊗ International academic awards

- Awards are granted to individuals who have made highly recognized academic contribution.
- Awards are granted without restrictions on *nationality*, and generally regardless of *race, gender, age, religion, ethnicity, disability, language, or political affiliation*.
- Awards included can generally be regarded as research awards. Some types of awards not included are *scholarship awards, teaching awards, prestigious fellowships or memberships, public service awards, travel or conference grants, and student awards*.



Methodology

⊙ Preliminary selection



Selection Criteria: Our definition of international academic awards

207 international academic awards



Methodology

Preliminary selection

Field and Subject		Number of Awards	Percentage of Awards
Multidisciplinary Fields		21	10.1%
Life Sciences and Medicine		36	17.4%
Natural Sciences	Astronomy	8	3.9%
	Chemistry	12	5.8%
	Earth Sciences	15	7.2%
	Mathematics	13	6.3%
	Physics	15	7.2%
Engineering Sciences	Cross-disciplinary	8	3.9%
	Chemical Engineering	6	2.9%
	Civil Engineering	5	2.4%
	Electrical and Information Engineering	13	6.3%
	Energy Science and Engineering	4	1.9%
	Environmental Science and Engineering	8	3.9%
	Materials Science and Engineering	6	2.9%
	Mechanical Engineering	4	1.9%
Social Sciences	Cross-disciplinary	7	3.4%
	Economics	11	5.3%
	Law	7	3.4%
	Political Science	8	3.9%
Total		207	100.0%



Methodology

• Reputation survey - *benchmark award*



- The Nobel Prizes have become a prevailing worldwide metaphor for supreme achievement - of all sorts.
- “As the *ne plus ultra* among awards in science, the Nobel prizes still serve as the gold standard for gauging the visibility, prestige, and affluence of all other awards.” (Zuckerman, 1992)



Methodology

- **Reputation survey - *questionnaires***
- Reputation surveys have been carried out subject by subject.
- The preselected awards conferred in a particular subject were included and listed in the same survey questionnaire.
- The preselected awards in multidisciplinary fields and cross-disciplinary subjects were included and listed in questionnaires of all the concern fields or subjects.
- For each questionnaire, survey respondents were asked to evaluate quantitatively the relative reputations of their familiar awards as compared with the Nobel Prize.



Methodology

Reputation survey - *questionnaires*

- For each award included in a questionnaire, a five-point scale was provided for respondents to choose from:

Reputation Level		Reputation Score
Highest (Nobel Prizes)	←→	1
High	←→	0.75
Average	←→	0.5
Low	←→	0.25
Negligible	←→	0



Methodology

• Reputation survey - *respondents*

- Since awardees are the ones who are most familiar with the status of relevant awards and most qualified to judge the reputations of relevant awards, respondents to the questionnaire in a specific subject/field were the awardees who had won awards included in this questionnaire.
- Considering the age of the awardees, awardees from 1990 to 2013 inclusive were actually chosen as survey respondents.
- As for the recipients who had won awards granted in multidisciplinary and cross-disciplinary fields, they were included in groups of respondents by relevant awarding subjects.



Methodology

- **Reputation survey - *online survey***
- The survey questionnaires were sent out to respondents by “Email Collector” of the Survey Monkey, which is the world's most popular online survey software.
- The surveys on the reputation of the preselected 207 international academic awards were conducted between March 2013 and April 2014.



Results

Survey responses

Field and Subject		Total Number of Scientists Surveyed	Total Number of Respondents	Response Rate
Life Sciences and Medicine		669	68	10.2%
Natural Sciences	Astronomy	77	17	22.1%
	Chemistry	192	36	18.8%
	Earth Sciences	163	21	12.9%
	Mathematics	134	27	20.1%
	Physics	244	38	15.6%
Engineering Sciences	Chemical Engineering	90	13	14.4%
	Civil Engineering	65	7	10.8%
	Electrical and Information Engineering	207	28	13.5%
	Energy Science and Engineering	175	32	18.3%
	Environmental Science and Engineering	107	20	18.7%
	Materials Science and Engineering	118	22	18.6%
	Mechanical Engineering	39	9	23.1%
Social Sciences	Economics	119	18	15.1%
	Law	85	11	12.9%
	Political Science	83	24	28.9%



Results



Awards in multidisciplinary fields

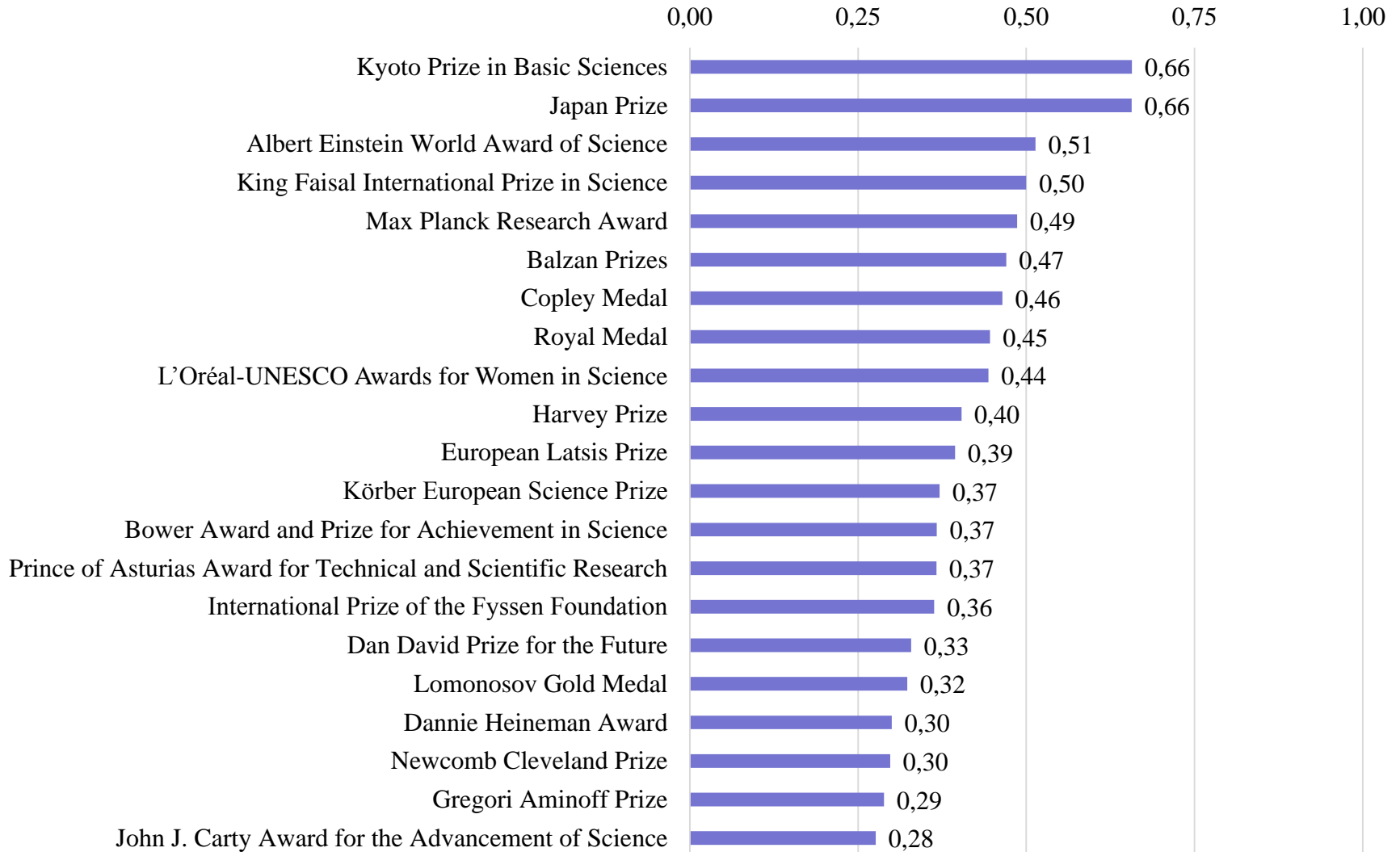
Award Name	Awarding Organization	Starting Year	Amount of Prize
Kyoto Prize in Basic Sciences	<i>The Inamori Foundation</i>	1985	<i>JPY 50,000,000</i>
Japan Prize	<i>The Japan Prize Foundation</i>	1985	<i>JPY 50,000,000</i>
Albert Einstein World Award of Science	<i>World Cultural Council</i>	1984	<i>USD 10,000</i>
King Faisal International Prize in Science	<i>The King Faisal Foundation</i>	1984	<i>USD 200,000</i>
Max Planck Research Award	<i>Alexander von Humboldt-Stiftung Foundation and the Max Planck Society</i>	2004	<i>EUR 750,000</i>
Balzan Prizes	<i>International Balzan Prize Foundation</i>	1962	<i>CHF 750,000</i>
Copley Medal	<i>The Royal Society</i>	1731	<i>GBP 5,000</i>
Royal Medal	<i>The Royal Society</i>	1826	<i>GBP 5,000</i>
L'Oréal-UNESCO Awards for Women in Science	<i>UNESCO & L'Oréal Foundation</i>	1998	<i>USD 100,000</i>
Harvey Prize	<i>Technion - Israel Institute of Technology</i>	1972	<i>USD 75,000</i>
European Latsis Prize	<i>European Science Foundation</i>	1999	<i>CHF 100,000</i>
Prince of Asturias Award for Technical and Scientific Research	<i>The Prince of Asturias Foundation</i>	1981	<i>EUR 50,000</i>
Bower Award and Prize for Achievement in Science	<i>Franklin Institute</i>	1990	<i>USD 250,000</i>
Körber European Science Prize	<i>Körber Foundation</i>	1985	<i>EUR 750,000</i>
International Prize of the Fyssen Foundation	<i>The Fyssen foundation</i>	1980	<i>EUR 60,000</i>
Dan David Prize for the Future	<i>Dan David Foundation</i>	2002	<i>USD 1,000,000</i>
Lomonosov Gold Medal	<i>Russian Academy of Sciences</i>	1959	
Dannie Heineman Award	<i>The Göttingen Academy of Sciences and Humanities</i>	1961	
Newcomb Cleveland Prize	<i>American Association for the Advancement of Science</i>	1923	<i>USD 25,000</i>
Gregori Aminoff Prize	<i>The Royal Swedish Academy of Sciences</i>	1979	<i>SEK 100,000</i>
John J. Carty Award for the Advancement of Science	<i>National Academy of Sciences</i>	1932	<i>USD 25,000</i>



Results



Reputation of awards in multidisciplinary fields





Results



Awards in life sciences and medicine

Award Name	Awarding Organization	Starting Year	Amount of Prize
Nobel Prize in Physiology or Medicine	<i>Karolinska Institutet</i>	<i>1901</i>	<i>SEK 8,000,000</i>
Albert Lasker Basic Medical Research Award	<i>Albert and Mary Lasker Foundation</i>	<i>1946</i>	<i>USD 250,000</i>
The Canada Gairdner International Award	<i>The Gairdner Foundation</i>	<i>1959</i>	<i>CAD 100,000</i>
Lasker~DeBakey Clinical Medical Research Award	<i>Albert and Mary Lasker Foundation</i>	<i>1946</i>	<i>USD 250,000</i>
The Shaw Prize in Life Science and Medicine	<i>The Shaw Prize Foundation</i>	<i>2004</i>	<i>USD 1,000,000</i>
The Canada Gairdner Global Health Award	<i>The Gairdner Foundation</i>	<i>2009</i>	<i>CAD 100,000</i>
Wolf Prize in Medicine	<i>Wolf Foundation</i>	<i>1978</i>	<i>USD 100,000</i>
The Kavli Prize in Neuroscience	<i>The Norwegian Academy of Science and Letters</i>	<i>2008</i>	<i>USD 1,000,000</i>
Crafoord Prize in Biosciences	<i>The Royal Swedish Academy of Sciences</i>	<i>1984</i>	<i>SEK 4,000,000</i>
The Louis-Jeantet Prize for Medicine	<i>Louis-Jeantet Foundation</i>	<i>1986</i>	<i>CHF 700,000</i>
Robert Koch Award	<i>The Robert Koch Foundation</i>	<i>1960</i>	<i>EUR 100,000</i>
Lasker~Koshland Special Achievement Award in Medical Science	<i>Albert and Mary Lasker Foundation</i>	<i>1994</i>	<i>USD 250,000</i>
King Faisal International Prize for Medicine	<i>The King Faisal Foundation</i>	<i>1982</i>	<i>USD 200,000</i>
Robert Koch Gold Medal	<i>The Robert Koch Foundation</i>	<i>1974</i>	
Paul Ehrlich and Ludwig Darmstaedter Prize	<i>The Paul Ehrlich Foundation</i>	<i>1952</i>	<i>EUR 100,000</i>
Heineken Prize for Medicine	<i>The Royal Netherlands Academy of Arts and Sciences</i>	<i>1988</i>	<i>USD 200,000</i>
Darwin Medal	<i>The Royal Society</i>	<i>1890</i>	<i>GBP 1,000</i>
International Prize for Biology	<i>Japan Society for the Promotion of Science</i>	<i>1985</i>	<i>JPY 10,000,000</i>



Results



Awards in life sciences and medicine

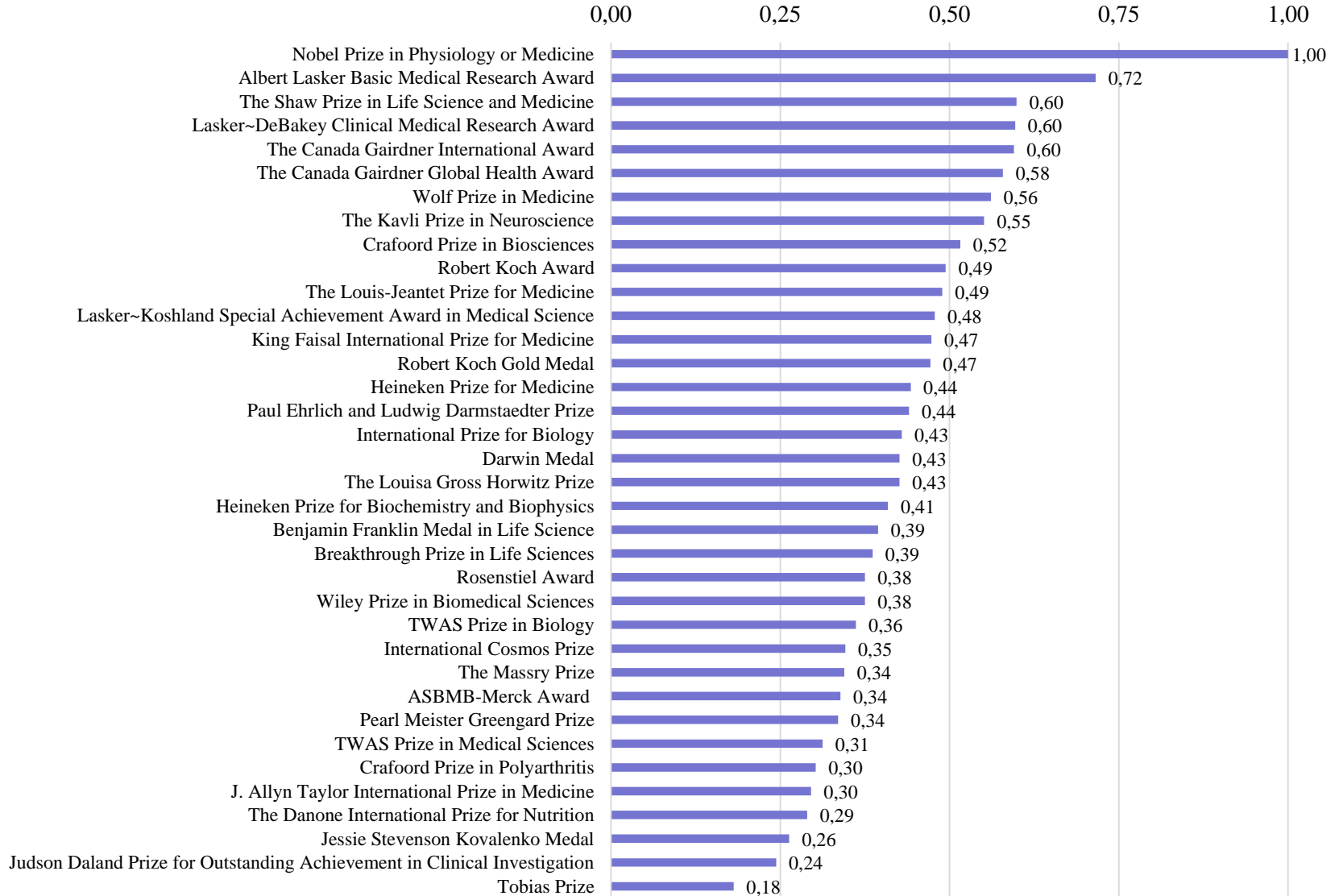
Award Name	Awarding Organization	Starting Year	Amount of Prize
The Louisa Gross Horwitz Prize	<i>Columbia University</i>	1967	<i>unpublicized</i>
Heineken Prize for Biochemistry and Biophysics	<i>The Royal Netherlands Academy of Arts and Sciences</i>	1964	<i>USD 200,000</i>
Benjamin Franklin Medal in Life Science	<i>Franklin Institute</i>	1998	
Breakthrough Prize in Life Sciences	<i>Breakthrough Prize in Life Sciences Foundation</i>	2013	<i>USD 3,000,000</i>
Rosenstiel Award	<i>Brandeis University</i>	1971	<i>USD 30,000</i>
Wiley Prize in Biomedical Sciences	<i>The Wiley Foundation</i>	2002	<i>USD 35,000</i>
TWAS Prize in Biology	<i>The World Academy of Sciences, TWAS</i>	1986	<i>USD 15,000</i>
International Cosmos Prize	<i>Expo'90 Foundation</i>	1993	<i>JPY 40,000,000</i>
The Massry Prize	<i>University of Southern California</i>	1996	<i>USD 40,000</i>
ASBMB-Merck Award	<i>American Society for Biochemistry and Molecular Biology</i>	1981	<i>USD 5,000</i>
Pearl Meister Greengard Prize	<i>Rockefeller University</i>	2004	<i>USD 100,000</i>
TWAS Prize in Medical Sciences	<i>The World Academy of Sciences, TWAS</i>	1988	<i>USD 15,000</i>
Crafoord Prize in Polyarthritis	<i>The Royal Swedish Academy of Sciences</i>	2000	<i>SEK 4,000,000</i>
J. Allyn Taylor International Prize in Medicine	<i>Robarts Research Institute</i>	1985	<i>USD 25,000</i>
The Danone International Prize for Nutrition	<i>Danone Institute</i>	1997	<i>EUR 120,000</i>
Jessie Stevenson Kovalenko Medal	<i>National Academy of Sciences</i>	1952	<i>USD 25,000</i>
Judson Daland Prize for Outstanding Achievement in Clinical Investigation	<i>American Philosophical Society</i>	2001	<i>USD 50,000</i>
Tobias Prize	<i>The Royal Swedish Academy of Sciences</i>	2008	<i>SEK 100,000</i>



Results



Reputation of awards in life sciences and medicine





Results



Awards in astronomy

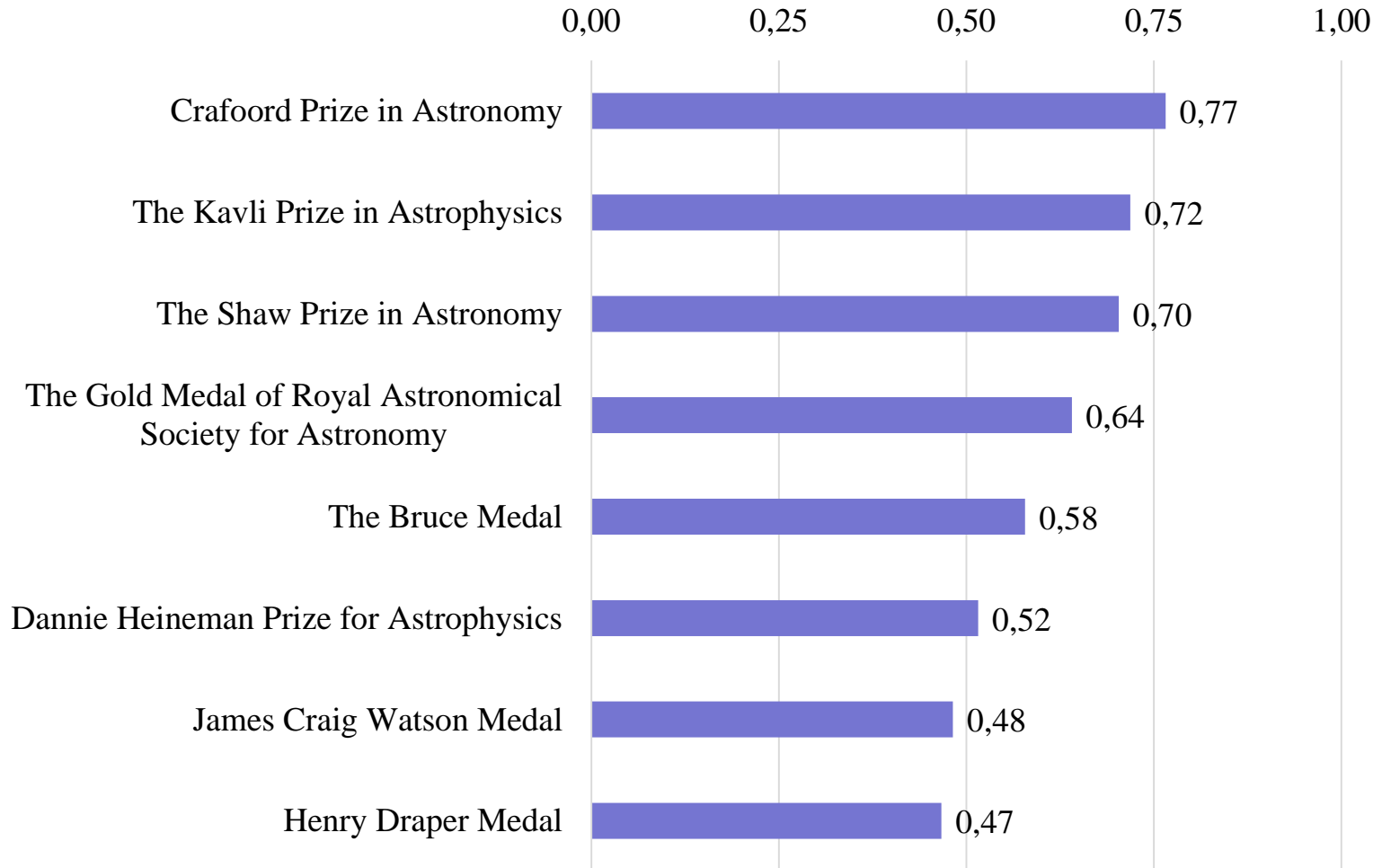
Award Name	Awarding Organization	Starting Year	Amount of Prize
Crafoord Prize in Astronomy	<i>The Royal Swedish Academy of Sciences</i>	1985	<i>SEK 4,000,000</i>
The Kavli Prize in Astrophysics	<i>The Norwegian Academy of Science and Letters</i>	2008	<i>USD 1,000,000</i>
The Shaw Prize in Astronomy	<i>The Shaw Prize Foundation</i>	2004	<i>USD 1,000,000</i>
The Gold Medal of Royal Astronomical Society for Astronomy	<i>Royal Astronomical Society</i>	1824	
The Bruce Medal	<i>Astronomical Society of the Pacific</i>	1898	
Dannie Heineman Prize for Astrophysics	<i>American Institute of Physics and American Astronomical Society</i>	1980	<i>USD 10,000</i>
James Craig Watson Medal	<i>National Academy of Sciences</i>	1887	<i>USD 25,000</i>
Henry Draper Medal	<i>National Academy of Sciences</i>	1886	<i>USD 15,000</i>



Results



Reputation of awards in astronomy





Results



Awards in chemistry

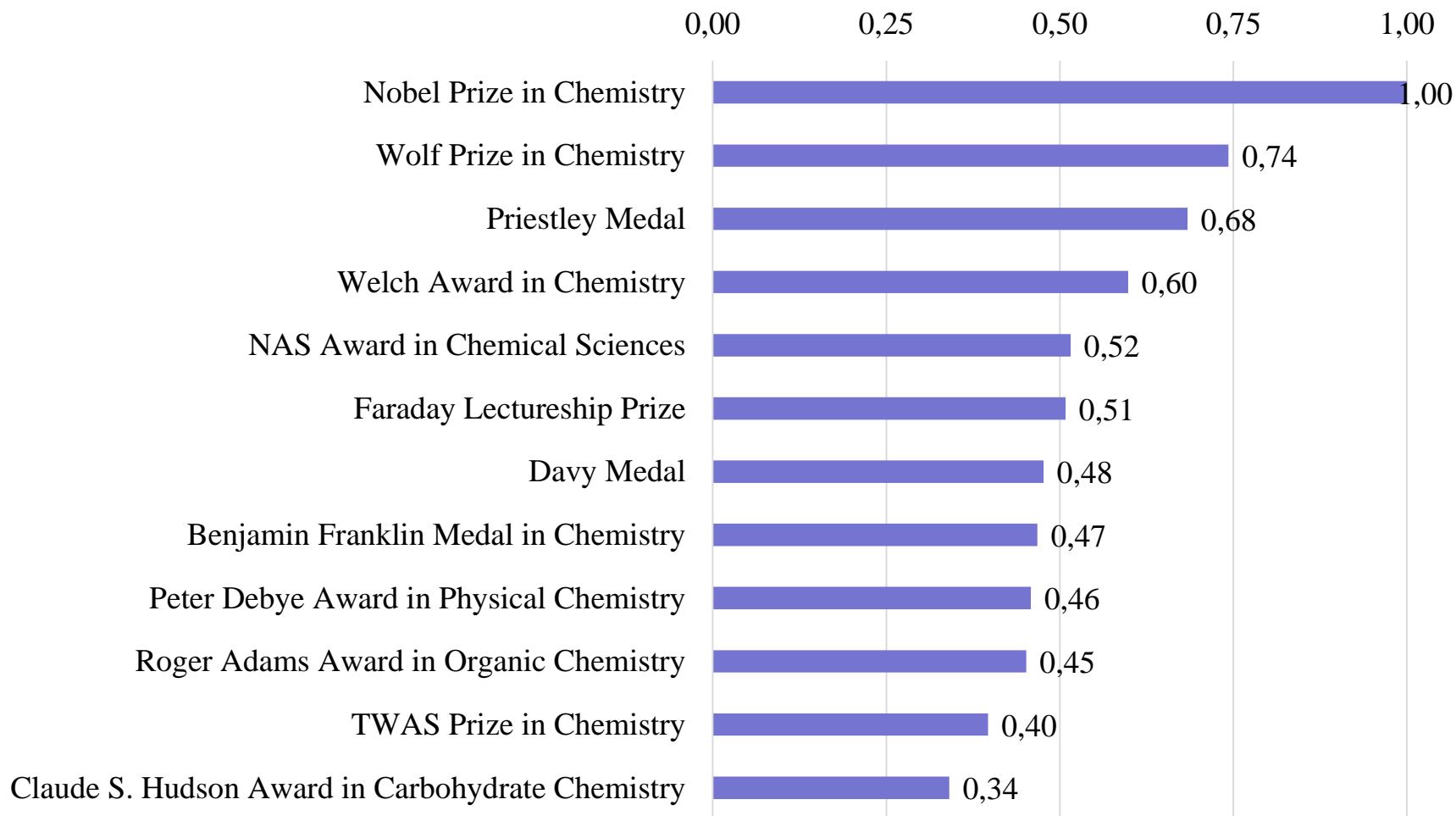
Award Name	Awarding Organization	Starting Year	Amount of Prize
Nobel Prize in Chemistry	<i>The Royal Swedish Academy of Sciences</i>	<i>1901</i>	<i>SEK 8,000,000</i>
Wolf Prize in Chemistry	<i>Wolf Foundation</i>	<i>1978</i>	<i>USD 100,000</i>
Priestley Medal	<i>American Chemical Society</i>	<i>1923</i>	
Welch Award in Chemistry	<i>The Welch Foundation</i>	<i>1972</i>	<i>USD 300,000</i>
NAS Award in Chemical Sciences	<i>National Academy of Sciences</i>	<i>1979</i>	<i>USD 15,000</i>
Faraday Lectureship Prize	<i>Royal Society of Chemistry</i>	<i>1869</i>	<i>GBP 5,000</i>
Davy Medal	<i>The Royal Society</i>	<i>1877</i>	<i>GBP 1,000</i>
Benjamin Franklin Medal in Chemistry	<i>Franklin Institute</i>	<i>1998</i>	
Peter Debye Award in Physical Chemistry	<i>American Chemical Society</i>	<i>1962</i>	<i>USD 5,000</i>
Roger Adams Award in Organic Chemistry	<i>American Chemical Society</i>	<i>1959</i>	<i>USD 25,000</i>
TWAS Prize in Chemistry	<i>The World Academy of Sciences, TWAS</i>	<i>1985</i>	<i>USD 15,000</i>
Claude S. Hudson Award in Carbohydrate Chemistry	<i>American Chemical Society</i>	<i>1946</i>	<i>USD 5,000</i>



Results



Reputation of awards in chemistry





Results



Awards in earth sciences

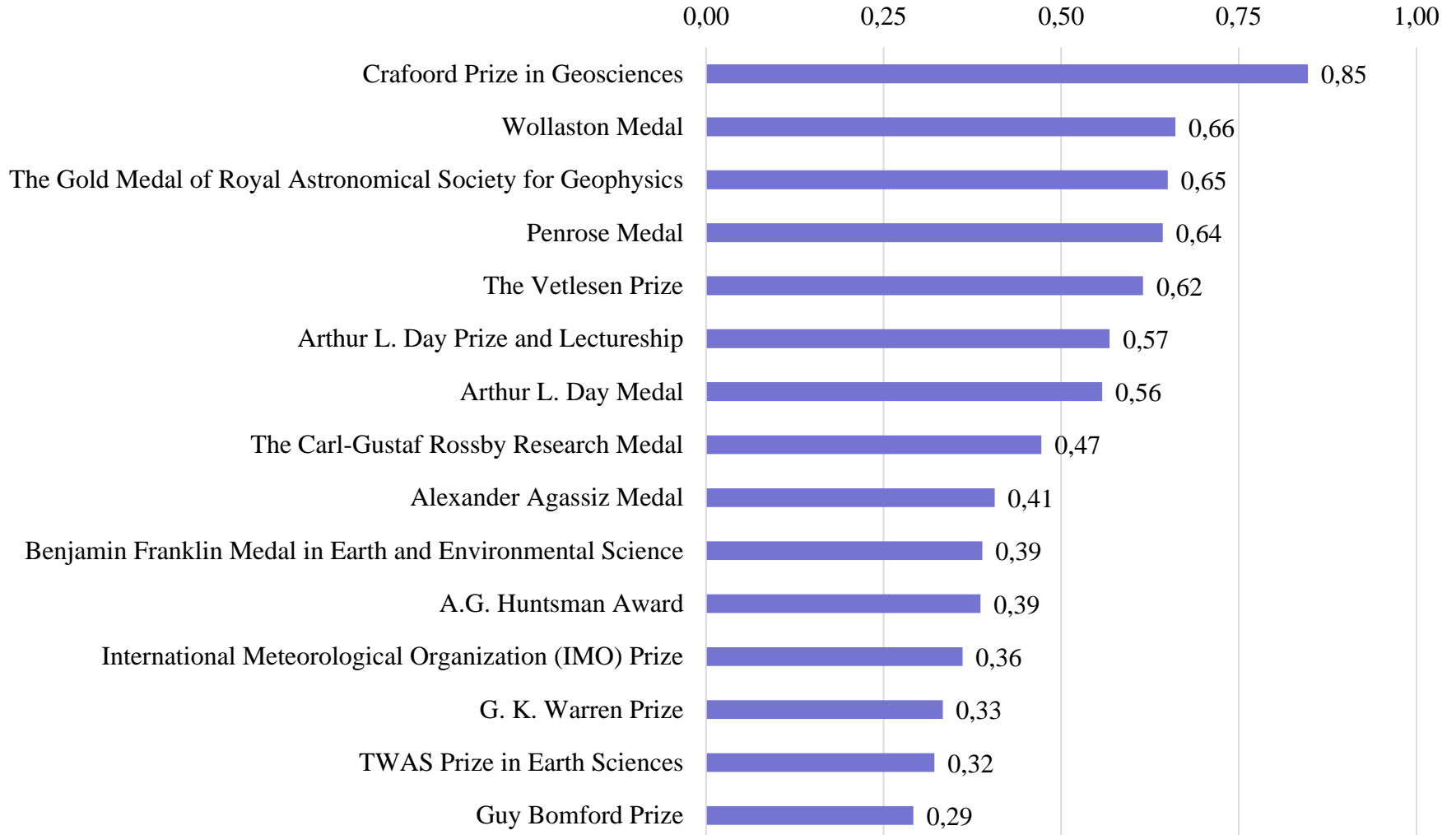
Award Name	Awarding Organization	Starting Year	Amount of Prize
Crafoord Prize in Geosciences	<i>The Royal Swedish Academy of Sciences</i>	1983	SEK 4,000,000
Wollaston Medal	<i>The Geological Society of London</i>	1831	
The Gold Medal of Royal Astronomical Society for Geophysics	<i>Royal Astronomical Society</i>	1903	
Penrose Medal	<i>Geological Society of America</i>	1927	
The Vetlesen Prize	<i>Columbia University's Lamont-Doherty Earth Observatory</i>	1960	USD 250,000
Arthur L. Day Prize and Lectureship	<i>National Academy of Sciences</i>	1972	USD 20,000
Arthur L. Day Medal	<i>Geological Society of America</i>	1948	
The Carl-Gustaf Rossby Research Medal	<i>American Meteorological Society</i>	1960	
Alexander Agassiz Medal	<i>National Academy of Sciences</i>	1913	
Benjamin Franklin Medal in Earth and Environmental Science	<i>Franklin Institute</i>	2000	
A.G. Huntsman Award	<i>Bedford Institute of Oceanography</i>	1980	
International Meteorological Organization (IMO) Prize	<i>World Meteorological Organization</i>	1956	CHF 10,000
G. K. Warren Prize	<i>National Academy of Sciences</i>	1969	USD 10,000
TWAS Prize in Earth Sciences	<i>The World Academy of Sciences, TWAS</i>	2003	USD 15,000
Guy Bomford Prize	<i>International Association of Geodesy</i>	1975	



Results



Reputation of awards in earth sciences





Results



Awards in mathematics

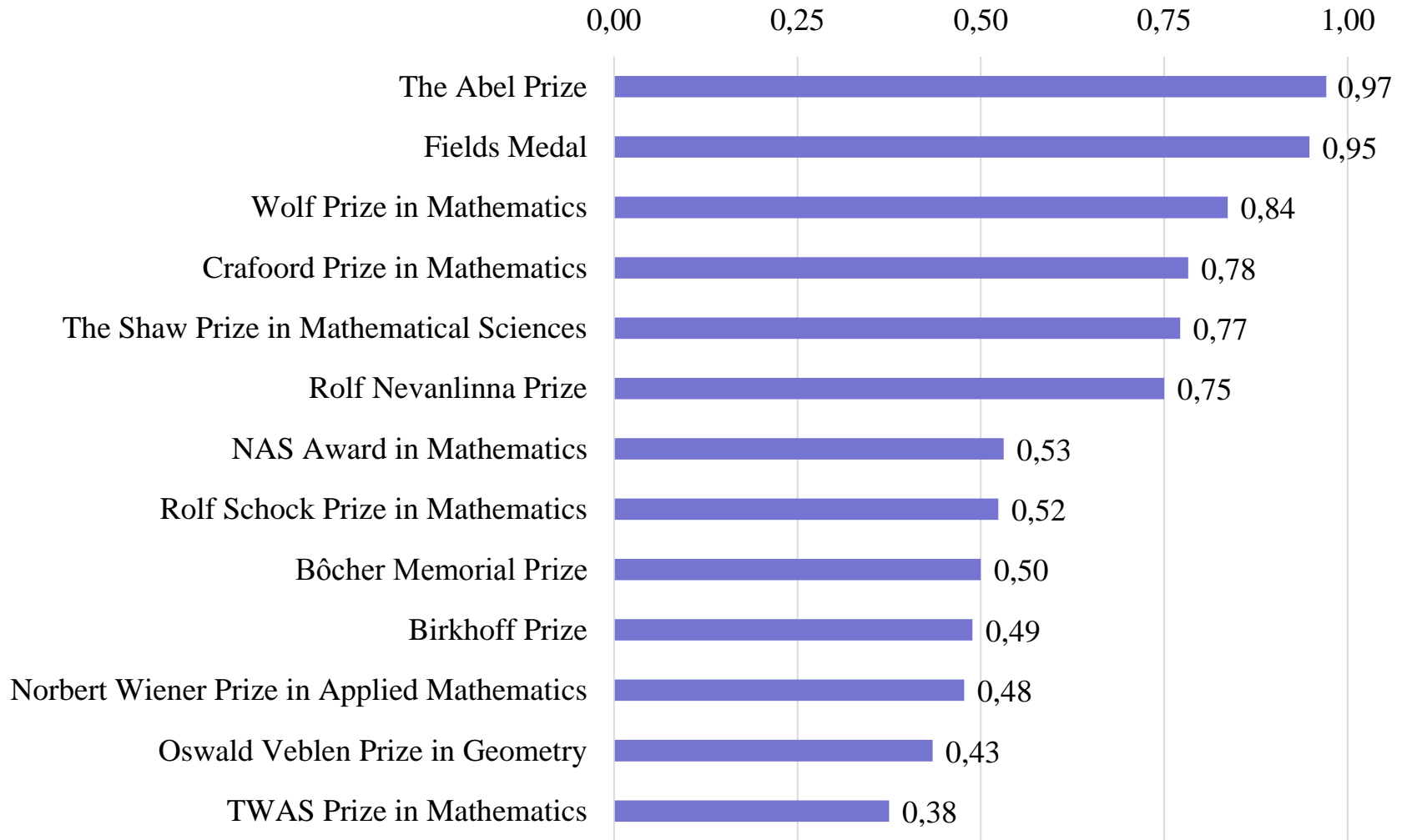
Award Name	Awarding Organization	Starting Year	Amount of Prize
The Abel Prize	<i>The Norwegian Academy of Science and Letters</i>	2003	<i>NOK 6,000,000</i>
Fields Medal	<i>International Mathematical Union</i>	1936	<i>CAD 15,000</i>
Wolf Prize in Mathematics	<i>Wolf Foundation</i>	1978	<i>USD 100,000</i>
Crafoord Prize in Mathematics	<i>The Royal Swedish Academy of Sciences</i>	1982	<i>SEK 4,000,000</i>
The Shaw Prize in Mathematical Sciences	<i>The Shaw Prize Foundation</i>	2004	<i>USD 1,000,000</i>
Rolf Nevanlinna Prize	<i>International Mathematical Union</i>	1982	<i>EUR 10,000</i>
NAS Award in Mathematics	<i>National Academy of Sciences</i>	1988	<i>USD 5,000</i>
Rolf Schock Prize in Mathematics	<i>The Royal Swedish Academy of Sciences</i>	1993	<i>SEK 500,000</i>
Bôcher Memorial Prize	<i>American Mathematical Society</i>	1923	<i>USD 5,000</i>
Birkhoff Prize	<i>American Mathematical Society & Society for Industrial and Applied Mathematics</i>	1968	<i>USD 5,000</i>
Norbert Wiener Prize in Applied Mathematics	<i>American Mathematical Society & Society for Industrial and Applied Mathematics</i>	1970	<i>USD 5,000</i>
Oswald Veblen Prize in Geometry	<i>American Mathematical Society</i>	1964	<i>USD 5,000</i>
TWAS Prize in Mathematics	<i>The World Academy of Sciences, TWAS</i>	1985	<i>USD 15,000</i>



Results



Reputation of awards in mathematics





Results



Awards in physics

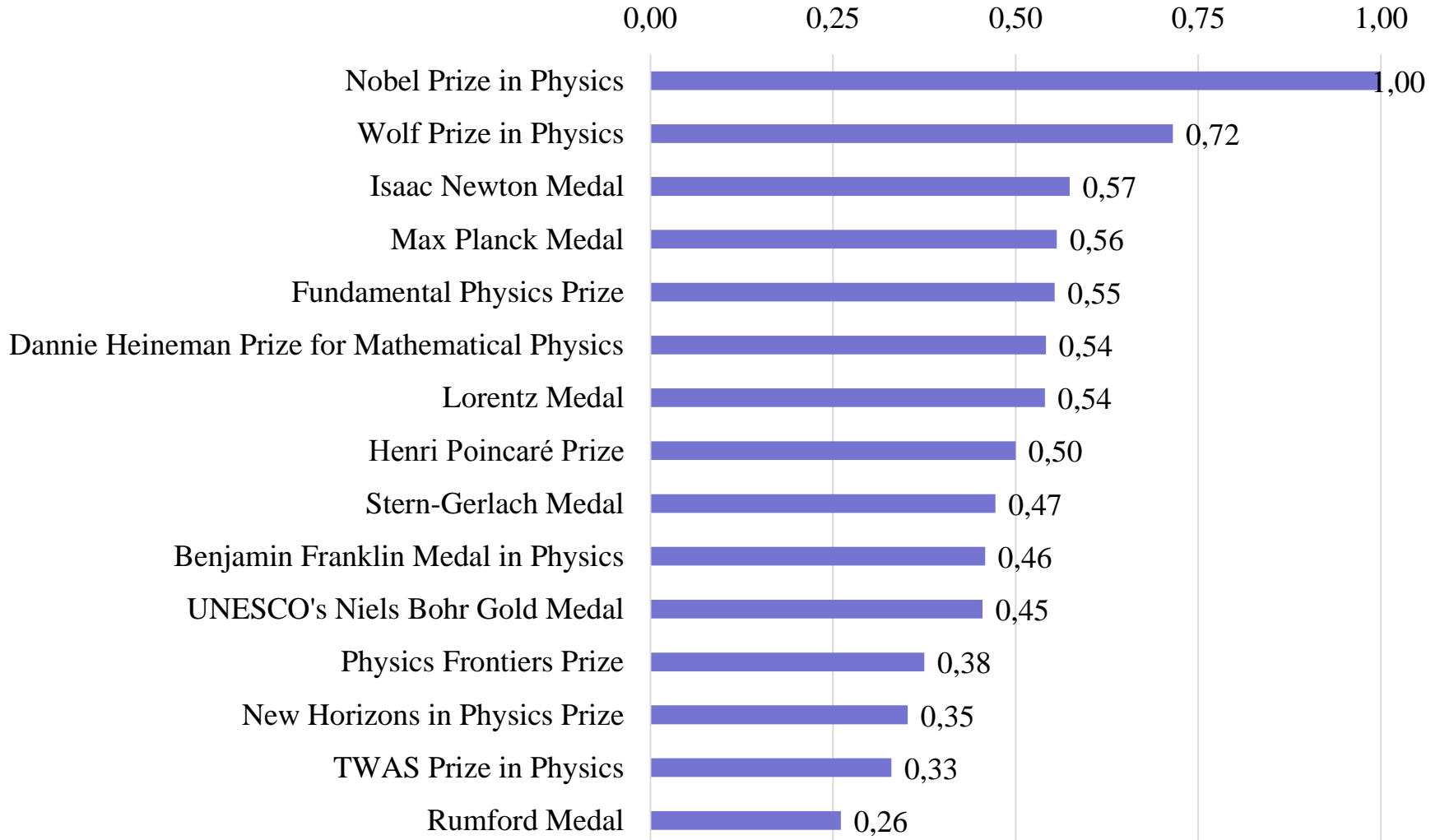
Award Name	Awarding Organization	Starting Year	Amount of Prize
Nobel Prize in Physics	<i>The Royal Swedish Academy of Sciences</i>	1901	SEK 8,000,000
Wolf Prize in Physics	<i>Wolf Foundation</i>	1978	USD 100,000
Isaac Newton Medal	<i>Institute of Physics</i>	2008	GBP 1,000
Max Planck Medal	<i>German Physical Society</i>	1929	
Fundamental Physics Prize	<i>The Fundamental Physics Prize Foundation</i>	2012	USD 3,000,000
Dannie Heineman Prize for Mathematical Physics	<i>American Physical Society & American Institute of Physics</i>	1959	USD 10,000
Lorentz Medal	<i>The Royal Netherlands Academy of Arts and Sciences</i>	1927	
Henri Poincaré Prize	<i>International Association of Mathematical Physics</i>	1997	
Stern-Gerlach Medal	<i>German Physical Society</i>	1993	
Benjamin Franklin Medal in Physics	<i>Franklin Institute</i>	1998	
UNESCO's Niels Bohr Gold Medal	<i>UNESCO</i>	1998	
Physics Frontiers Prize	<i>The Fundamental Physics Prize Foundation</i>	2013	USD 300,000
New Horizons in Physics Prize	<i>The Fundamental Physics Prize Foundation</i>	2013	USD 100,000
TWAS Prize in Physics	<i>The World Academy of Sciences, TWAS</i>	1985	USD 15,000
Rumford Medal	<i>The Royal Society</i>	1800	GBP 1,000



Results



Reputation of awards in physics





Results



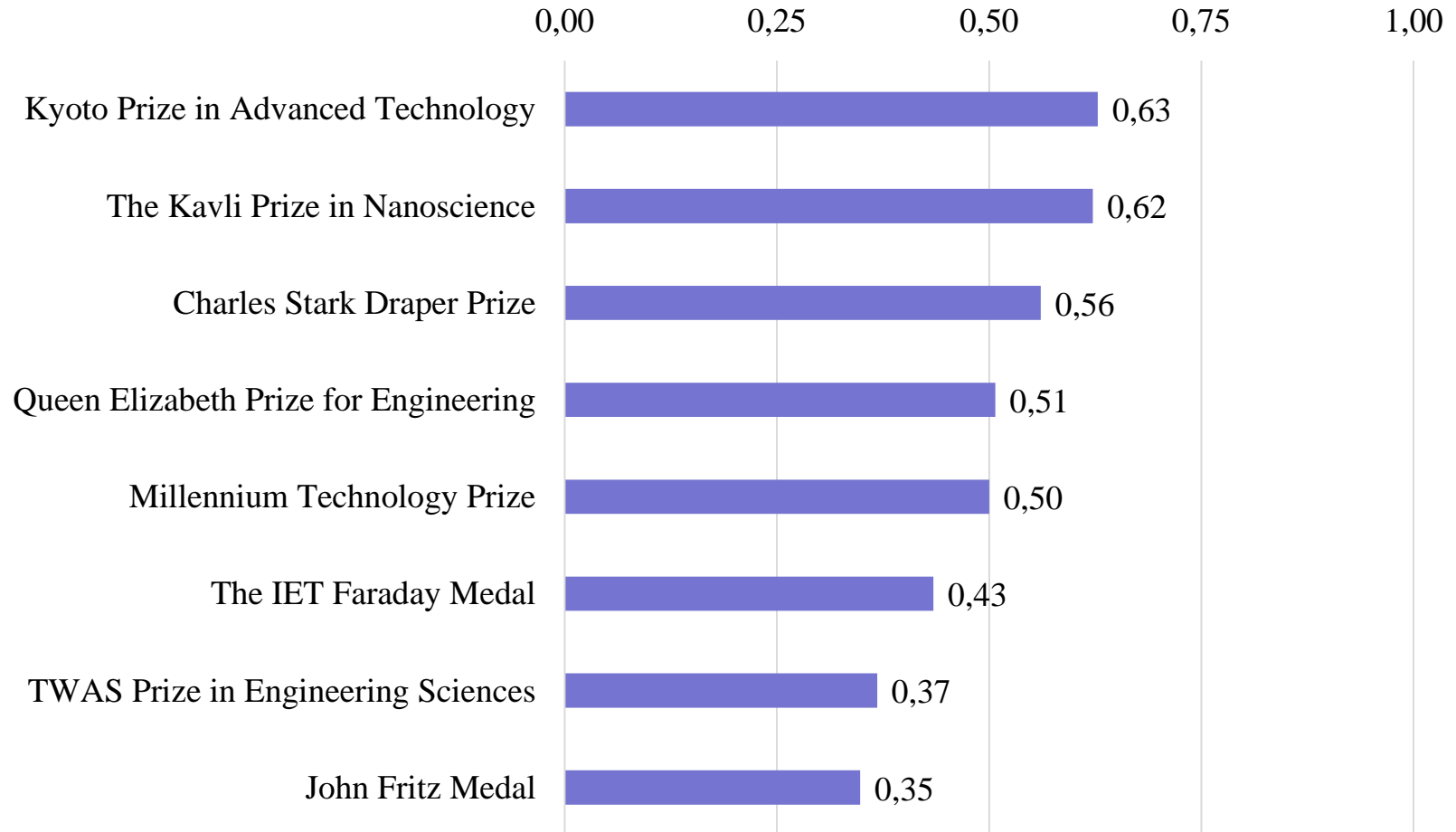
Awards in cross-disciplinary field of engineering sciences

Award Name	Awarding Organization	Starting Year	Amount of Prize
Kyoto Prize in Advanced Technology	<i>The Inamori Foundation</i>	<i>1985</i>	<i>JPY 50,000,000</i>
The Kavli Prize in Nanoscience	<i>The Norwegian Academy of Science and Letters</i>	<i>2008</i>	<i>USD 1,000,000</i>
Charles Stark Draper Prize	<i>National Academy of Engineering</i>	<i>1989</i>	<i>USD 500,000</i>
Queen Elizabeth Prize for Engineering	<i>The Queen Elizabeth Prize for Engineering Foundation</i>	<i>2013</i>	<i>GBP 1,000,000</i>
Millennium Technology Prize	<i>Technology Academy Finland</i>	<i>2004</i>	<i>EUR 1,000,000</i>
The IET Faraday Medal	<i>Institution of Engineering and Technology, IET</i>	<i>1922</i>	
TWAS Prize in Engineering Sciences	<i>The World Academy of Sciences, TWAS</i>	<i>2003</i>	<i>USD 15,000</i>
John Fritz Medal	<i>American Association of Engineering Societies</i>	<i>1902</i>	



Results

Reputation of awards in cross-disciplinary field of engineering sciences





Results



Awards in chemical engineering

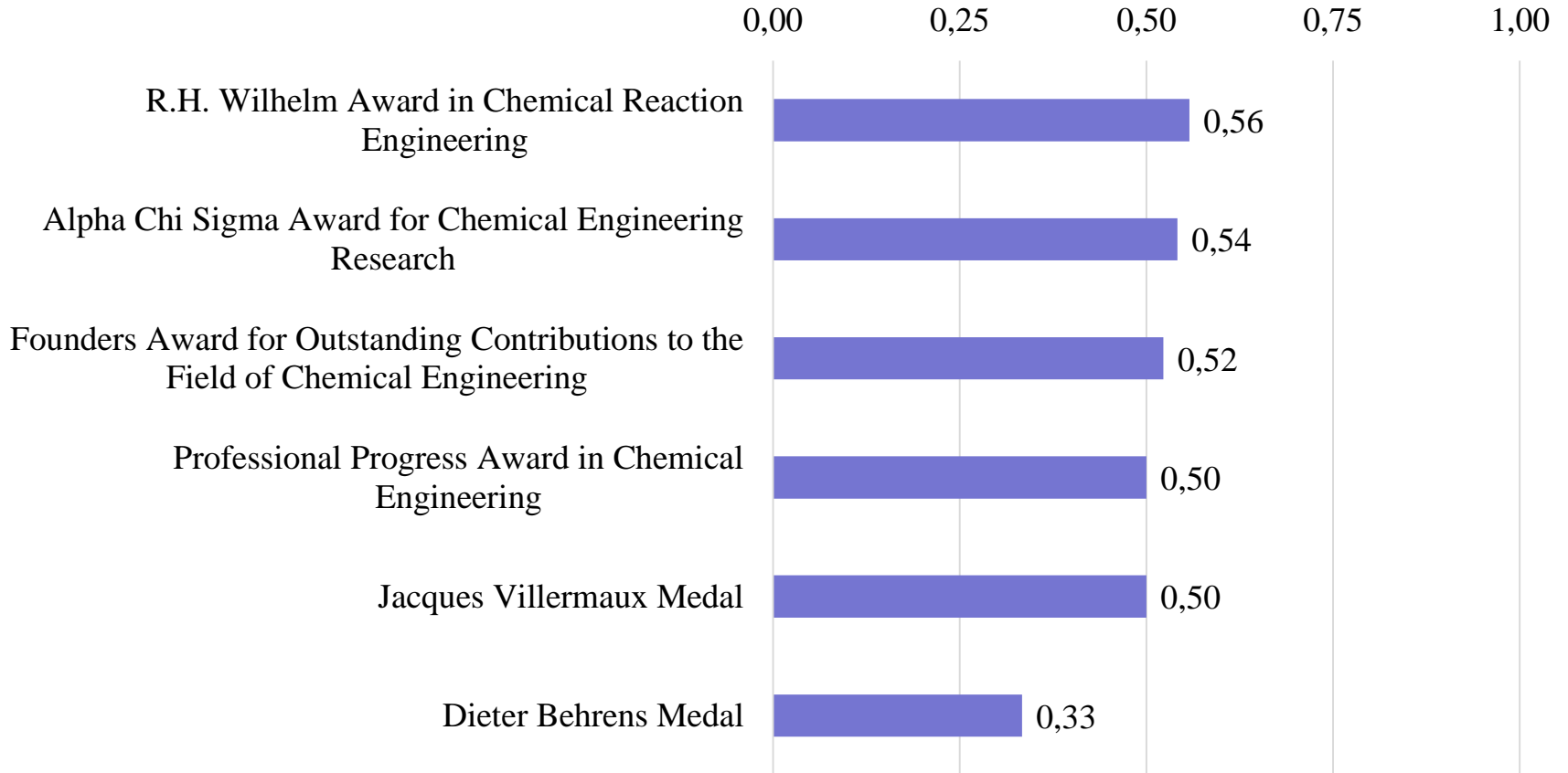
Award Name	Awarding Organization	Starting Year	Amount of Prize
R.H. Wilhelm Award in Chemical Reaction Engineering	<i>American Institute of Chemical Engineers</i>	1966	<i>USD 3,000</i>
Alpha Chi Sigma Award for Chemical Engineering Research	<i>American Institute of Chemical Engineers</i>	1966	<i>USD 5,000</i>
Founders Award for Outstanding Contributions to the Field of Chemical Engineering	<i>American Institute of Chemical Engineers</i>	1958	<i>USD 3,000</i>
Professional Progress Award in Chemical Engineering	<i>American Institute of Chemical Engineers</i>	1948	<i>USD 4,000</i>
Jacques Villermaux Medal	<i>European Federation of Chemical Engineering</i>	1999	
Dieter Behrens Medal	<i>European Federation of Chemical Engineering</i>	1999	



Results



Reputation of awards in chemical engineering





Results



Awards in civil engineering

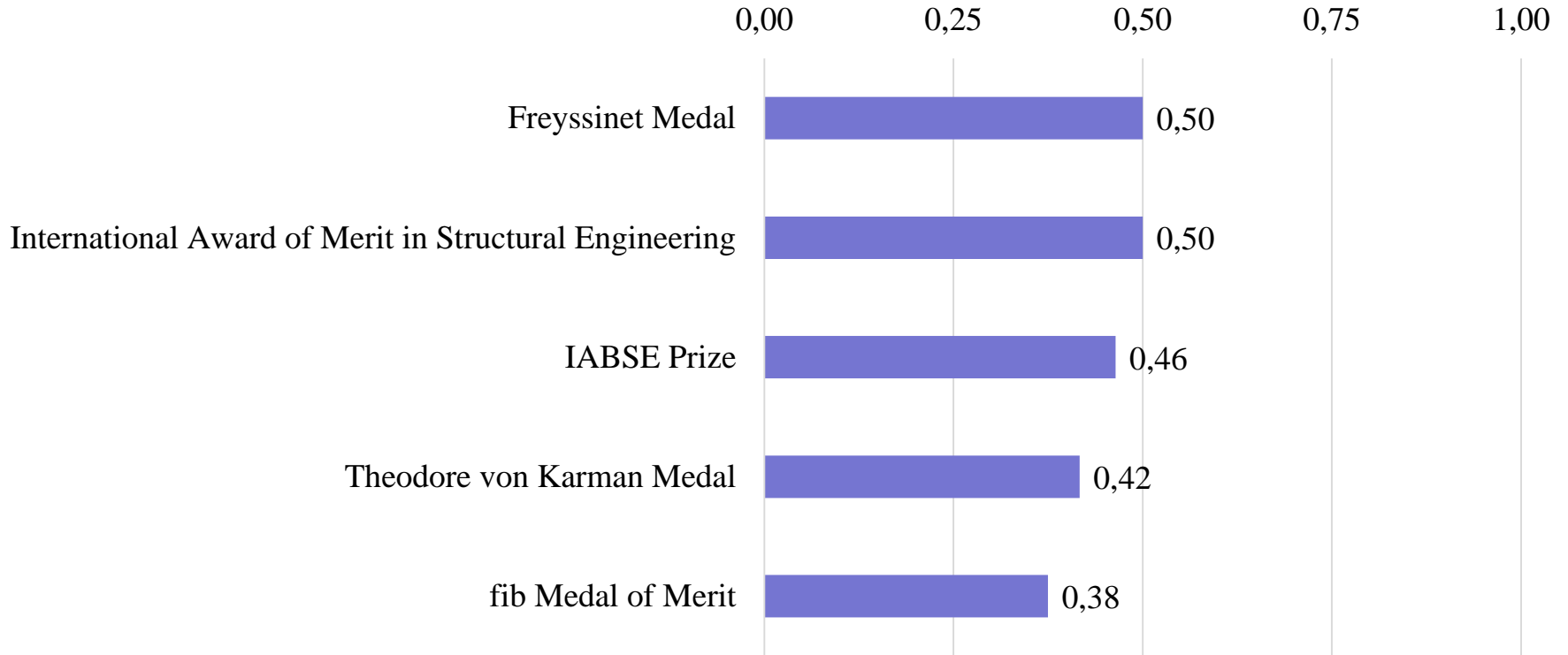
Award Name	Awarding Organization	Starting Year	Amount of Prize
Freyssinet Medal	<i>The International Federation for Structural Concrete, fib</i>	1970	
International Award of Merit in Structural Engineering	<i>International Association for Bridge and Structural Engineering, IABSE</i>	1976	
IABSE Prize	<i>International Association for Bridge and Structural Engineering, IABSE</i>	1983	<i>unpublicized</i>
Theodore von Karman Medal	<i>American Society of Civil Engineers</i>	1960	
fib Medal of Merit	<i>The International Federation for Structural Concrete, fib</i>	1970	



Results



Reputation of awards in civil engineering





Results



Awards in electrical and information engineering

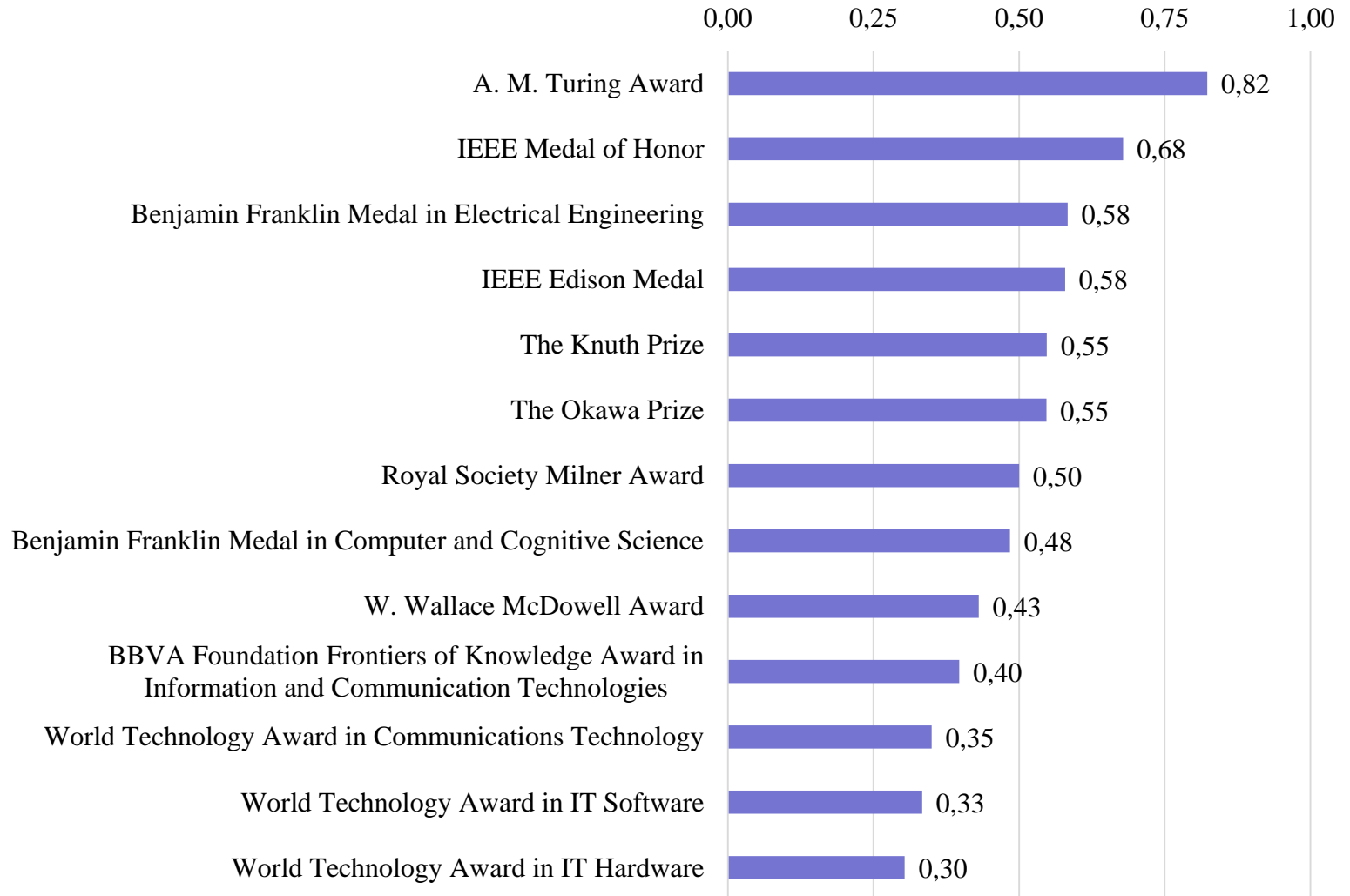
Award Name	Awarding Organization	Starting Year	Amount of Prize
A. M. Turing Award	<i>Association for Computing Machinery</i>	1966	<i>USD 250,000</i>
IEEE Medal of Honor	<i>Institute of Electrical and Electronics Engineers</i>	1917	<i>unpublicized</i>
Benjamin Franklin Medal in Electrical Engineering	<i>Franklin Institute</i>	2000	
IEEE Edison Medal	<i>Institute of Electrical and Electronics Engineers</i>	1909	<i>unpublicized</i>
The Okawa Prize	<i>The Okawa Foundation</i>	1992	<i>JPY 10,000,000</i>
The Knuth Prize	<i>ACM-SIGACT & IEEE-TCMFC</i>	1996	<i>USD 5,000</i>
Royal Society Milner Award	<i>The Royal Society</i>	2006	<i>GBP 5,000</i>
Benjamin Franklin Medal in Computer and Cognitive Science	<i>Franklin Institute</i>	1999	
W. Wallace McDowell Award	<i>IEEE Computer Society</i>	1966	<i>USD 2,000</i>
BBVA Foundation Frontiers of Knowledge Award in Information and Communication Technologies	<i>BBVA Foundation</i>	2008	<i>EUR 400,000</i>
World Technology Award in Communications Technology (for individuals)	<i>The World Technology Network</i>	2000	
World Technology Award in IT Software (for individuals)	<i>The World Technology Network</i>	2000	
World Technology Award in IT Hardware (for individuals)	<i>The World Technology Network</i>	2000	



Results



Reputation of awards in electrical and information engineering





Results



Awards in energy science and engineering

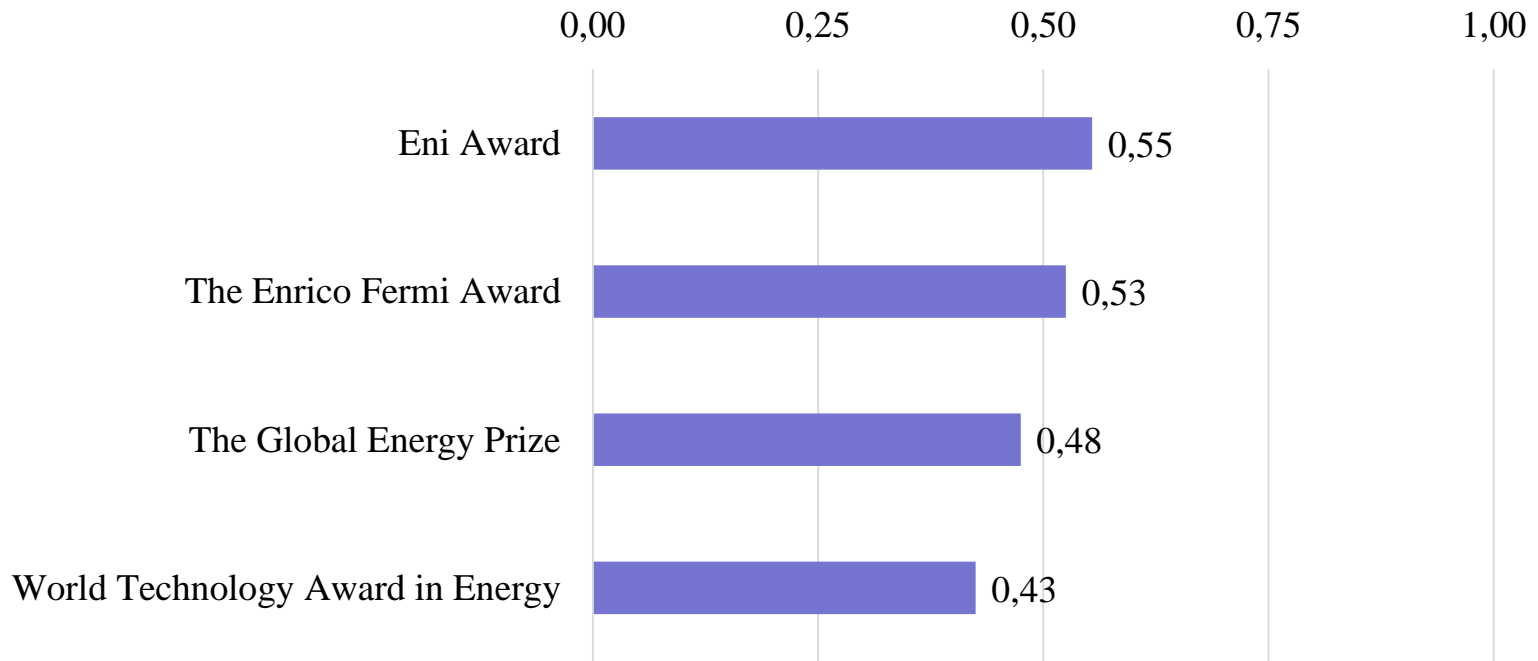
Award Name	Awarding Organization	Starting Year	Amount of Prize
Eni Award	<i>Eni S.p.a.</i>	1987	<i>EUR 200,000</i>
The Enrico Fermi Award	<i>U.S. Department of Energy's Office of Science</i>	1956	<i>USD 50,000</i>
The Global Energy Prize	<i>The Global Energy Non-Profit Partnership</i>	2003	<i>USD 1,100,000</i>
World Technology Award in Energy (for individuals)	<i>The World Technology Network</i>	2000	



Results



Reputation of awards in energy science and engineering





Results



Awards in environmental science and engineering

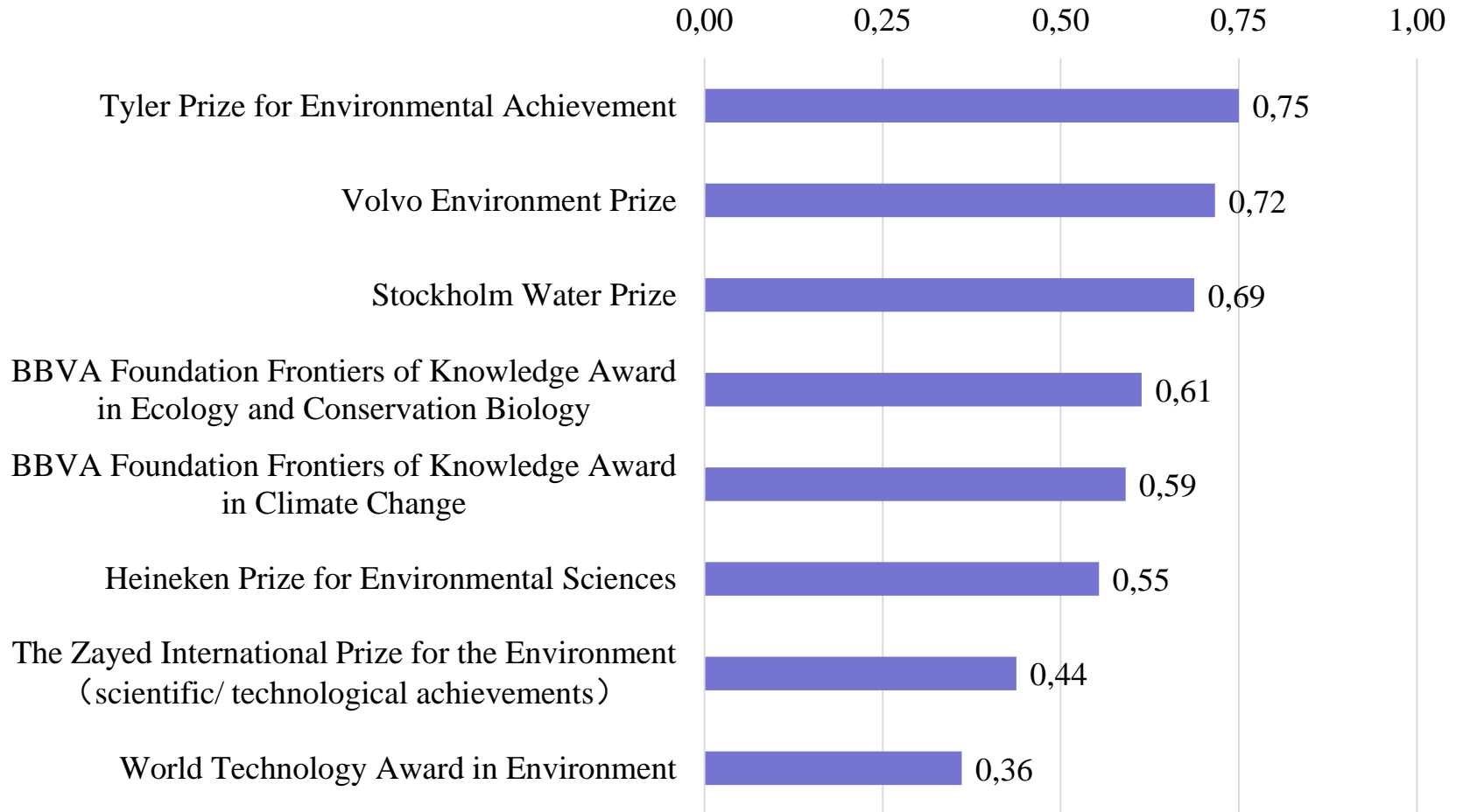
Award Name	Awarding Organization	Starting Year	Amount of Prize
Tyler Prize for Environmental Achievement	<i>The University of Southern California</i>	<i>1974</i>	<i>USD 200,000</i>
Volvo Environment Prize	<i>The Volvo Environment Prize Foundation</i>	<i>1990</i>	<i>SEK 1,500,000</i>
Stockholm Water Prize	<i>Stockholm International Water Institute</i>	<i>1991</i>	<i>USD 150,000</i>
BBVA Foundation Frontiers of Knowledge Award in Ecology and Conservation Biology	<i>BBVA Foundation</i>	<i>2008</i>	<i>EUR 400,000</i>
BBVA Foundation Frontiers of Knowledge Award in Climate Change	<i>BBVA Foundation</i>	<i>2008</i>	<i>EUR 400,000</i>
Heineken Prize for Environmental Sciences	<i>The Royal Netherlands Academy of Arts and Sciences</i>	<i>1990</i>	<i>USD 200,000</i>
The Zayed International Prize for the Environment (scientific/ technological achievements)	<i>Zayed International Foundation for the Environment</i>	<i>2001</i>	<i>USD 300,000</i>
World Technology Award in Environment (for individuals)	<i>The World Technology Network</i>	<i>2000</i>	



Results



Reputation of awards in environmental science and engineering





Results



Awards in materials science and engineering

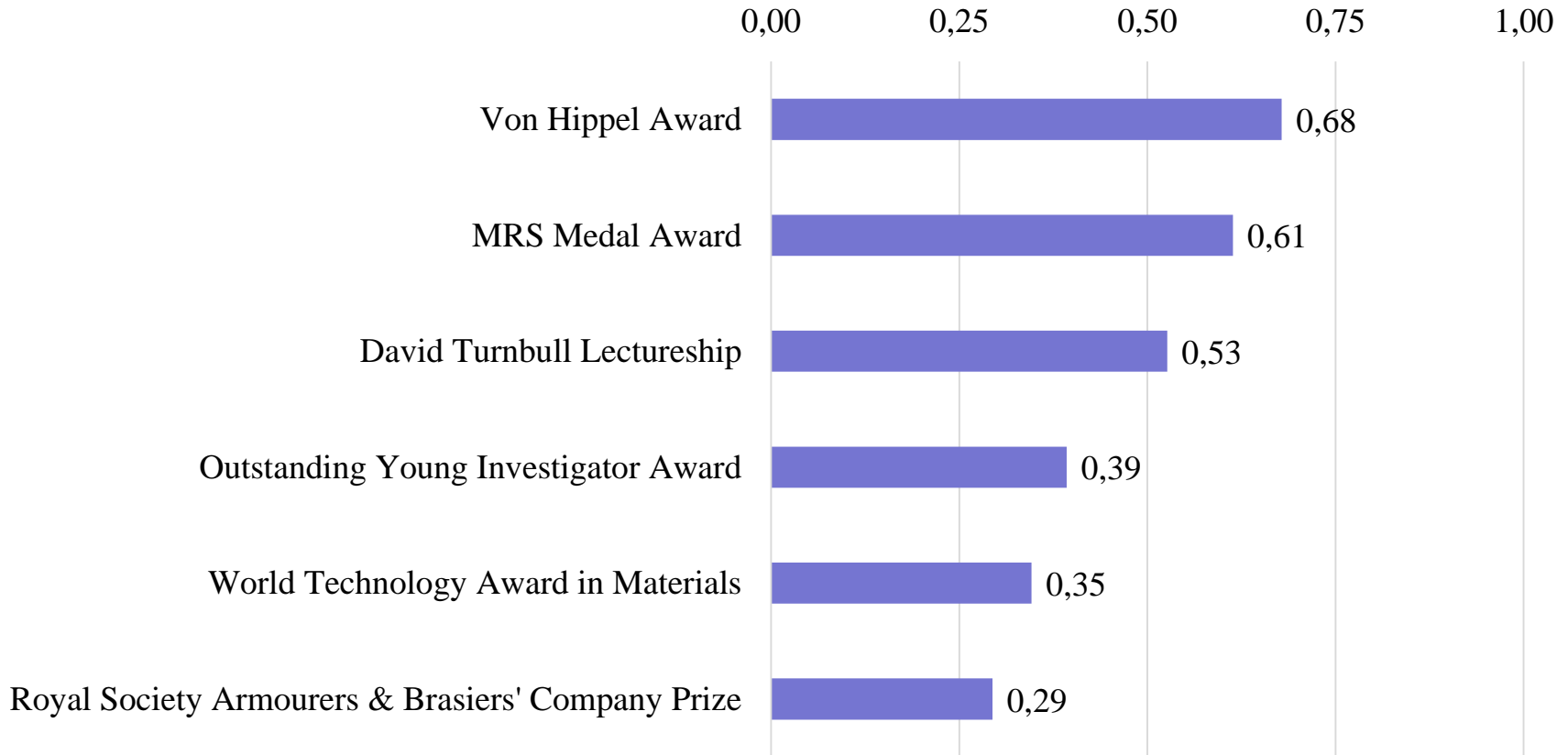
Award Name	Awarding Organization	Starting Year	Amount of Prize
Von Hippel Award	<i>Materials Research Society, MRS</i>	<i>1976</i>	<i>USD 10,000</i>
MRS Medal Award	<i>Materials Research Society, MRS</i>	<i>1990</i>	<i>USD 5,000</i>
David Turnbull Lectureship	<i>Materials Research Society, MRS</i>	<i>1992</i>	<i>USD 5,000</i>
Outstanding Young Investigator Award	<i>Materials Research Society, MRS</i>	<i>1991</i>	<i>USD 5,000</i>
World Technology Award in Materials (for individuals)	<i>The World Technology Network</i>	<i>2000</i>	
Royal Society Armourers & Brasiers' Company Prize	<i>Materials Research Society, MRS</i>	<i>1985</i>	<i>GBP 2,000</i>



Results



Reputation of awards in materials science and engineering





Results



Awards in mechanical engineering

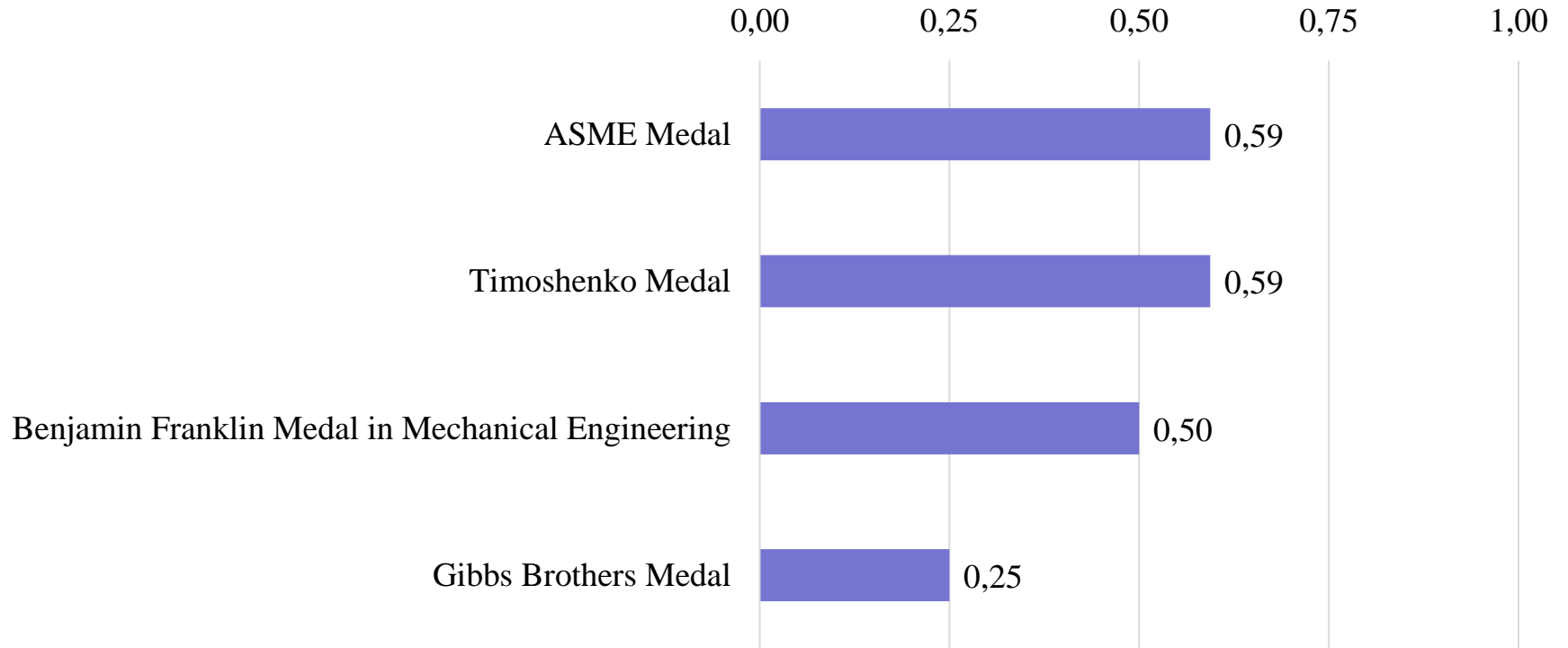
Award Name	Awarding Organization	Starting Year	Amount of Prize
ASME Medal	<i>American Society of Mechanical Engineers</i>	<i>1921</i>	<i>USD 15,000</i>
Timoshenko Medal	<i>American Society of Mechanical Engineers</i>	<i>1957</i>	<i>USD 2,500</i>
Benjamin Franklin Medal in Mechanical Engineering	<i>Franklin Institute</i>	<i>2000</i>	
Gibbs Brothers Medal	<i>National Academy of Sciences</i>	<i>1965</i>	<i>USD 20,000</i>



Results



Reputation of awards in mechanical engineering





Results



Awards in cross-disciplinary field of social sciences

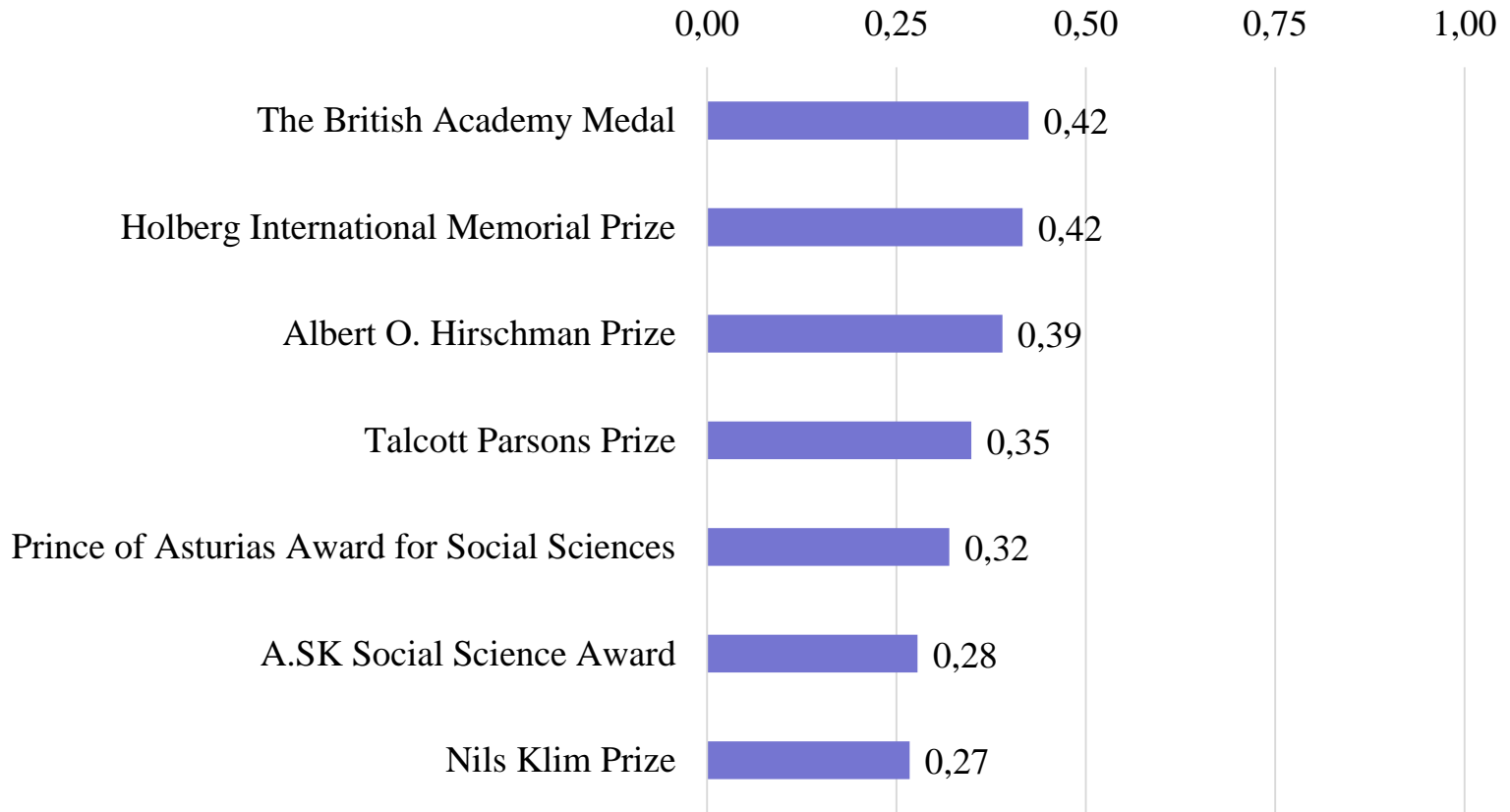
Award Name	Awarding Organization	Starting Year	Amount of Prize
Holberg International Memorial Prize	<i>University of Bergen</i>	<i>2004</i>	<i>NOK 4,500,000</i>
The British Academy Medal	<i>The British Academy</i>	<i>2013</i>	
Albert O. Hirschman Prize	<i>The Social Science Research Council</i>	<i>2007</i>	<i>USD 10,000</i>
Talcott Parsons Prize	<i>American Academy of Arts and Sciences</i>	<i>1974</i>	
Prince of Asturias Award for Social Sciences	<i>The Prince of Asturias Foundation</i>	<i>1981</i>	<i>EUR 50,000</i>
A.SK Social Science Award	<i>WZB Berlin Social Science Center</i>	<i>2007</i>	<i>EUR 100,000</i>
Nils Klim Prize	<i>University of Bergen</i>	<i>2004</i>	<i>NOK 250,000</i>



Results



Reputation of awards in cross-disciplinary field of social sciences





Results



Awards in economics

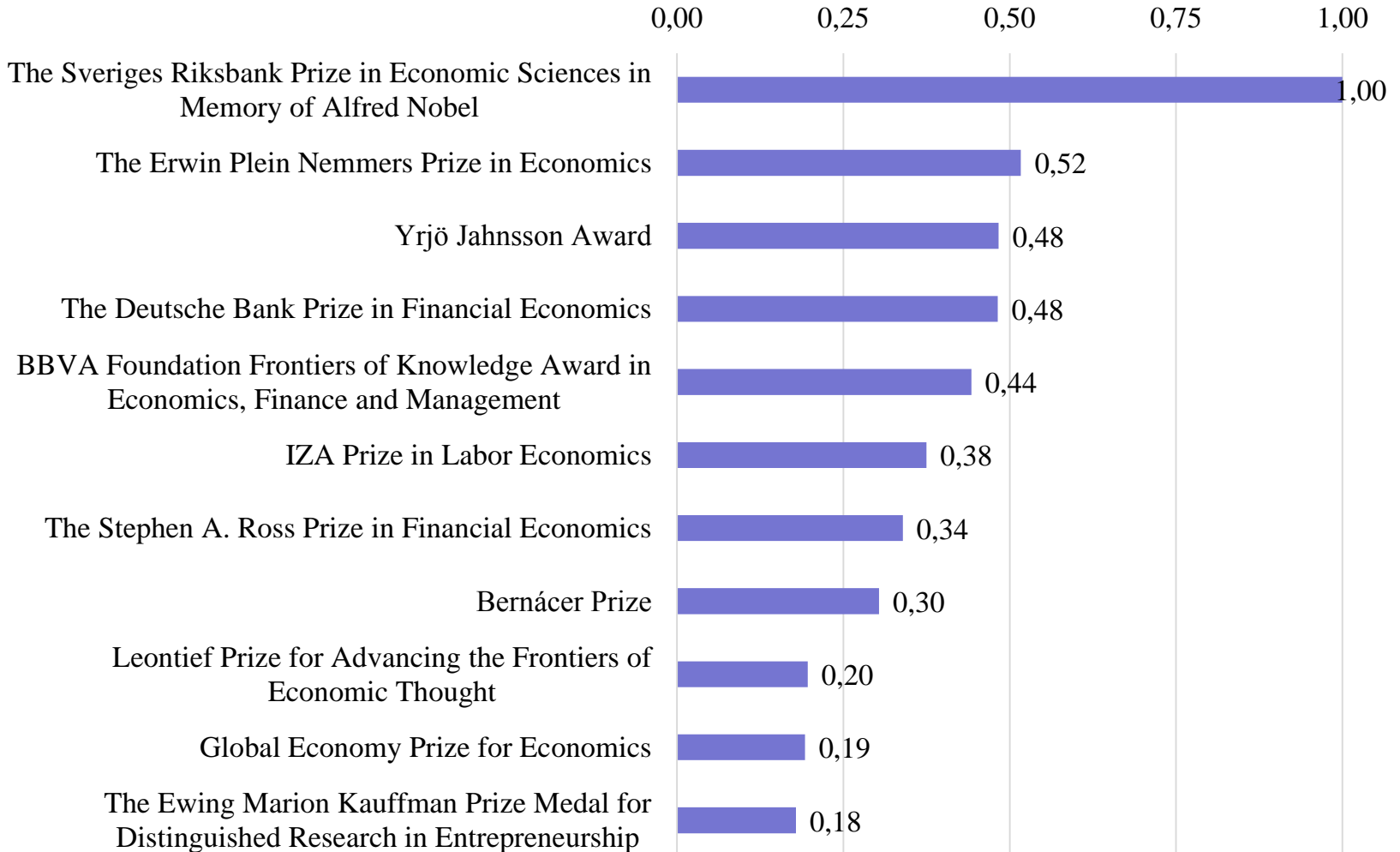
Award Name	Awarding Organization	Starting Year	Amount of Prize
The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel	<i>The Royal Swedish Academy of Sciences</i>	1969	SEK 8,000,000
The Erwin Plein Nemmers Prize in Economics	<i>Northwestern University</i>	1994	USD 200,000
The Deutsche Bank Prize in Financial Economics	<i>Center for Financial Studies and Goethe University Frankfurt</i>	2005	EUR 50,000
Yrjö Jahnsson Award	<i>European Economic Association</i>	1993	EUR 18,000
BBVA Foundation Frontiers of Knowledge Award in Economics, Finance and Management	<i>BBVA Foundation</i>	2008	EUR 400,000
IZA Prize in Labor Economics	<i>Institute for the Study of Labor</i>	2002	EUR 50,000
The Stephen A. Ross Prize in Financial Economics	<i>Foundation for the Advancement of Research in Financial Economics</i>	2008	USD 100,000
Bernácer Prize	<i>Observatorio del Banco Central Europeo</i>	2001	EUR 30,000
Leontief Prize for Advancing the Frontiers of Economic Thought	<i>Global Development And Environment Institute at Tufts University</i>	2000	
Global Economy Prize for Economics	<i>Kiel Institute for the World Economy</i>	2005	
The Ewing Marion Kauffman Prize Medal for Distinguished Research in Entrepreneurship	<i>Ewing Marion Kauffman Foundation</i>	2005	USD 50,000



Results



Reputation of awards in economics





Results



Awards in law

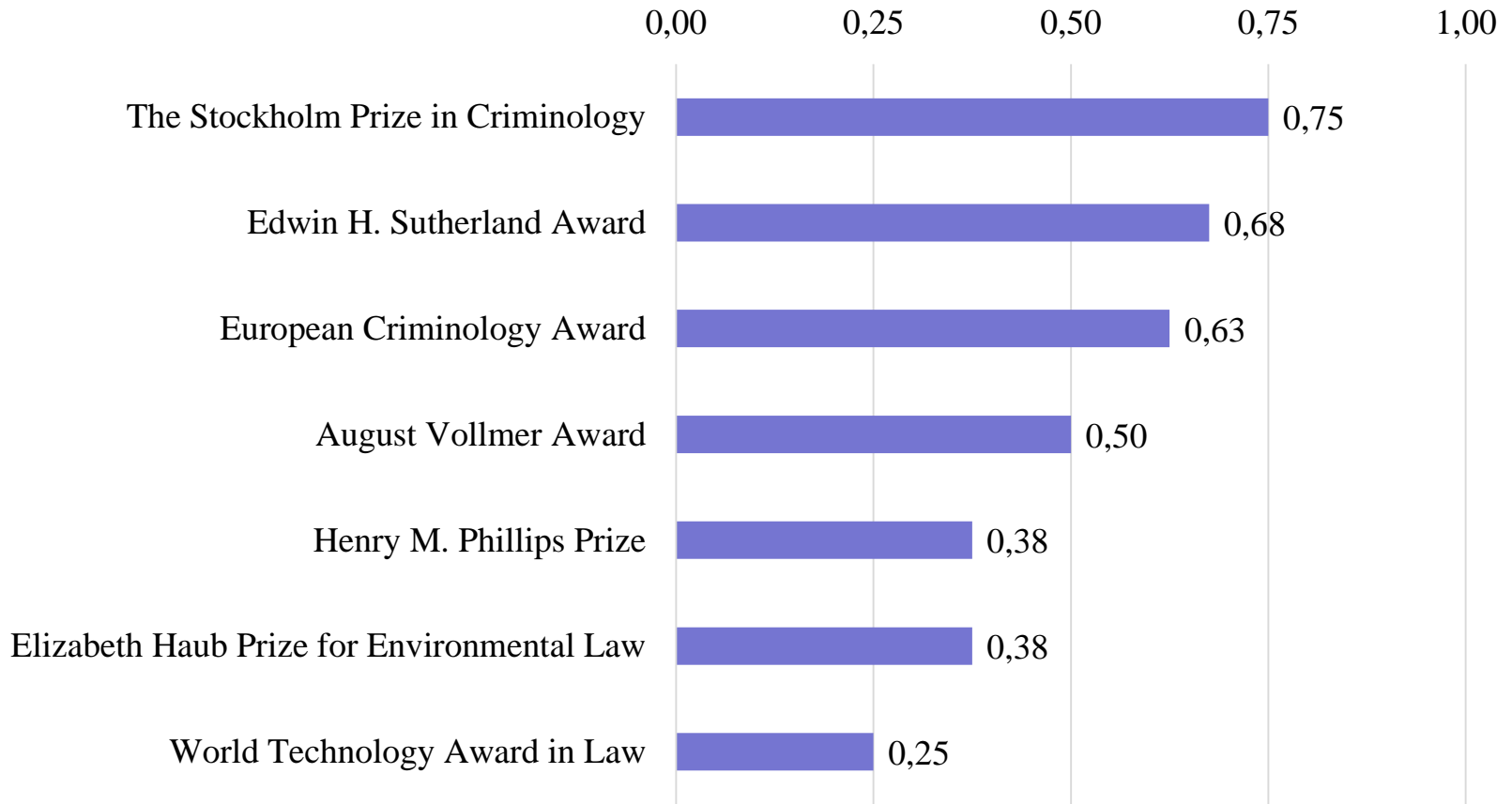
Award Name	Awarding Organization	Starting Year	Amount of Prize
The Stockholm Prize in Criminology	<i>Stockholm University</i>	<i>2006</i>	<i>SEK 1,000,000</i>
Edwin H. Sutherland Award	<i>American Society of Criminology</i>	<i>1960</i>	
European Criminology Award	<i>European Society of Criminology</i>	<i>2007</i>	
August Vollmer Award	<i>American Society of Criminology</i>	<i>1960</i>	
Henry M. Phillips Prize	<i>American Philosophical Society</i>	<i>1895</i>	
Elizabeth Haub Prize for Environmental Law	<i>Stockholm University</i>	<i>1974</i>	<i>EUR 4,000</i>
World Technology Award in Law (for Individuals)	<i>The World Technology Network</i>	<i>2000</i>	



Results



Reputation of awards in law





Results



Awards in political science

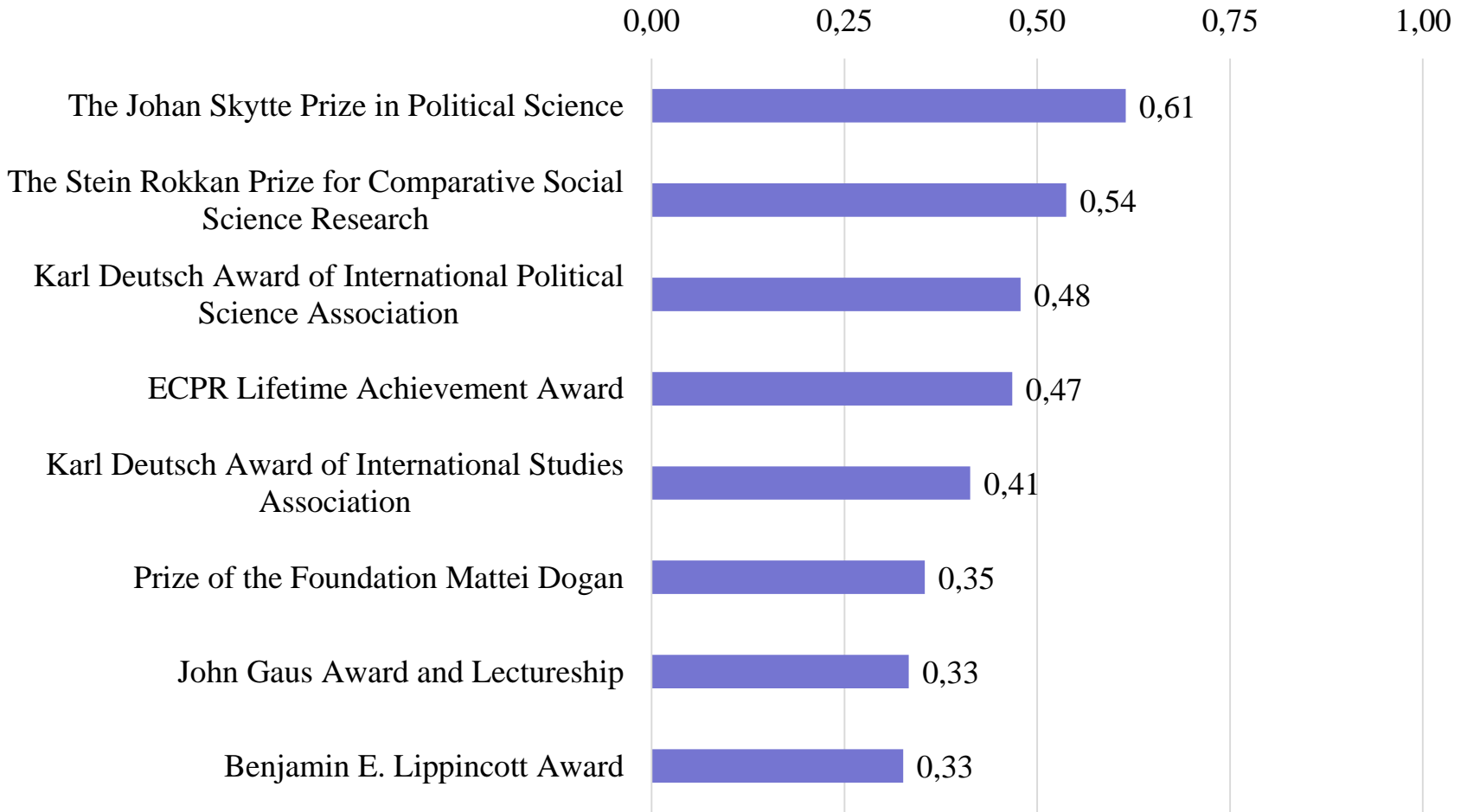
Award Name	Awarding Organization	Starting Year	Amount of Prize
The Johan Skytte Prize in Political Science	<i>Johan Skytte Foundation at Uppsala University</i>	<i>1995</i>	<i>EUR 50,000</i>
The Stein Rokkan Prize for Comparative Social Science Research	<i>International Social Science Council, the University of Bergen and the European Consortium for Political Research</i>	<i>1981</i>	<i>USD 5,000</i>
Karl Deutsch Award of International Political Science Association	<i>International Political Science Association</i>	<i>1997</i>	<i>USD 1,000</i>
ECPR Lifetime Achievement Award	<i>European Consortium for Political Research, ECPR</i>	<i>2005</i>	<i>EUR 5,000</i>
Karl Deutsch Award of International Studies Association	<i>International Studies Association</i>	<i>1985</i>	<i>USD 500</i>
Prize of the Foundation Mattei Dogan	<i>International Political Science Association</i>	<i>2006</i>	<i>USD 5,000</i>
Benjamin E. Lippincott Award	<i>American Political Science Association</i>	<i>1975</i>	<i>USD 1,500</i>
John Gaus Award and Lectureship	<i>American Political Science Association</i>	<i>1986</i>	<i>USD 2,000</i>



Results



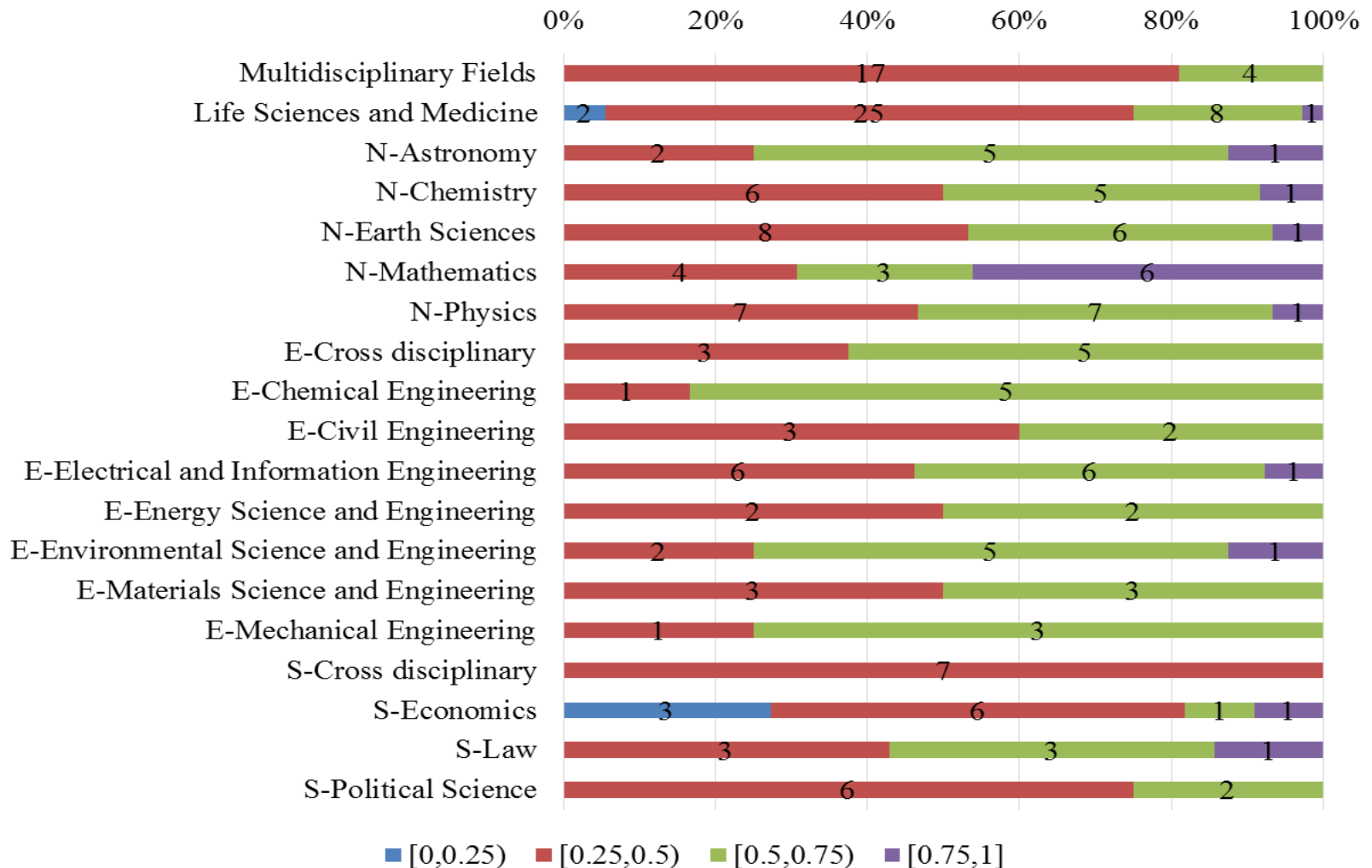
Reputation of awards in political science





Results

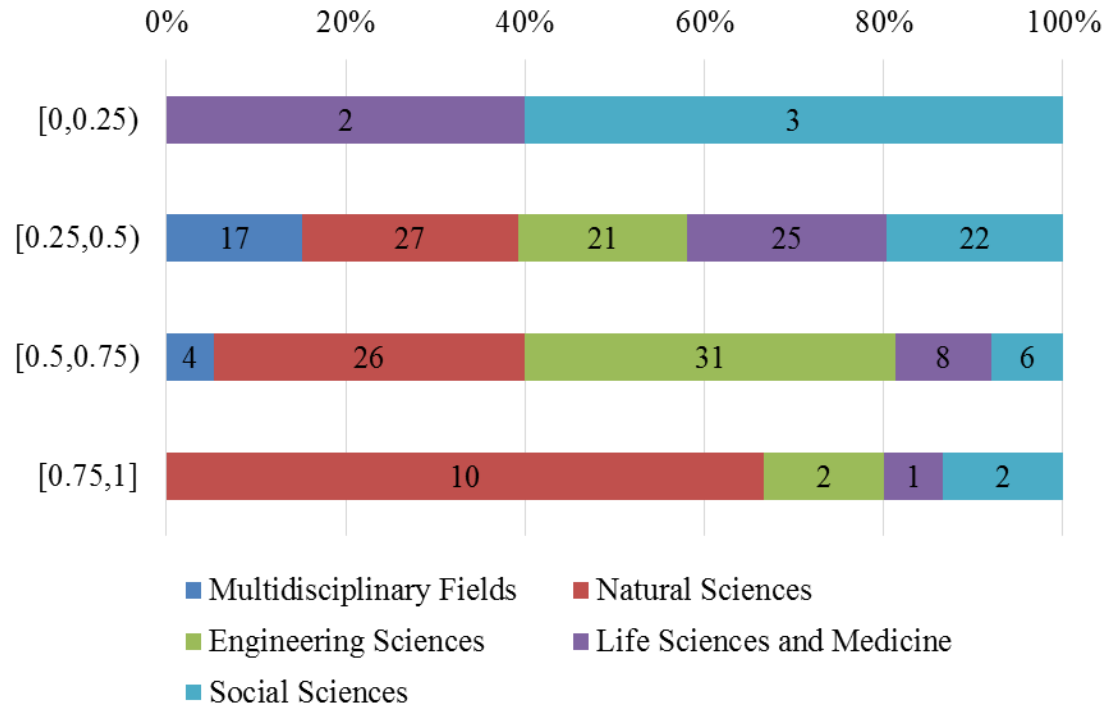
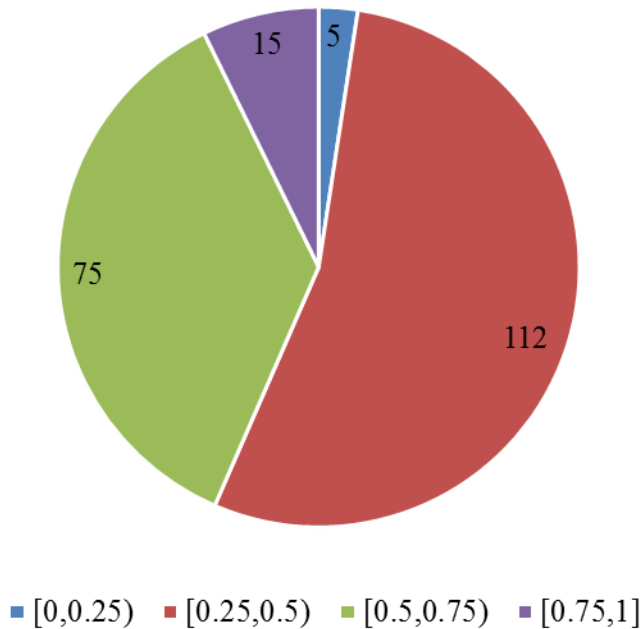
Survey results of 207 awards





Results

Survey results of 207 awards by broad fields





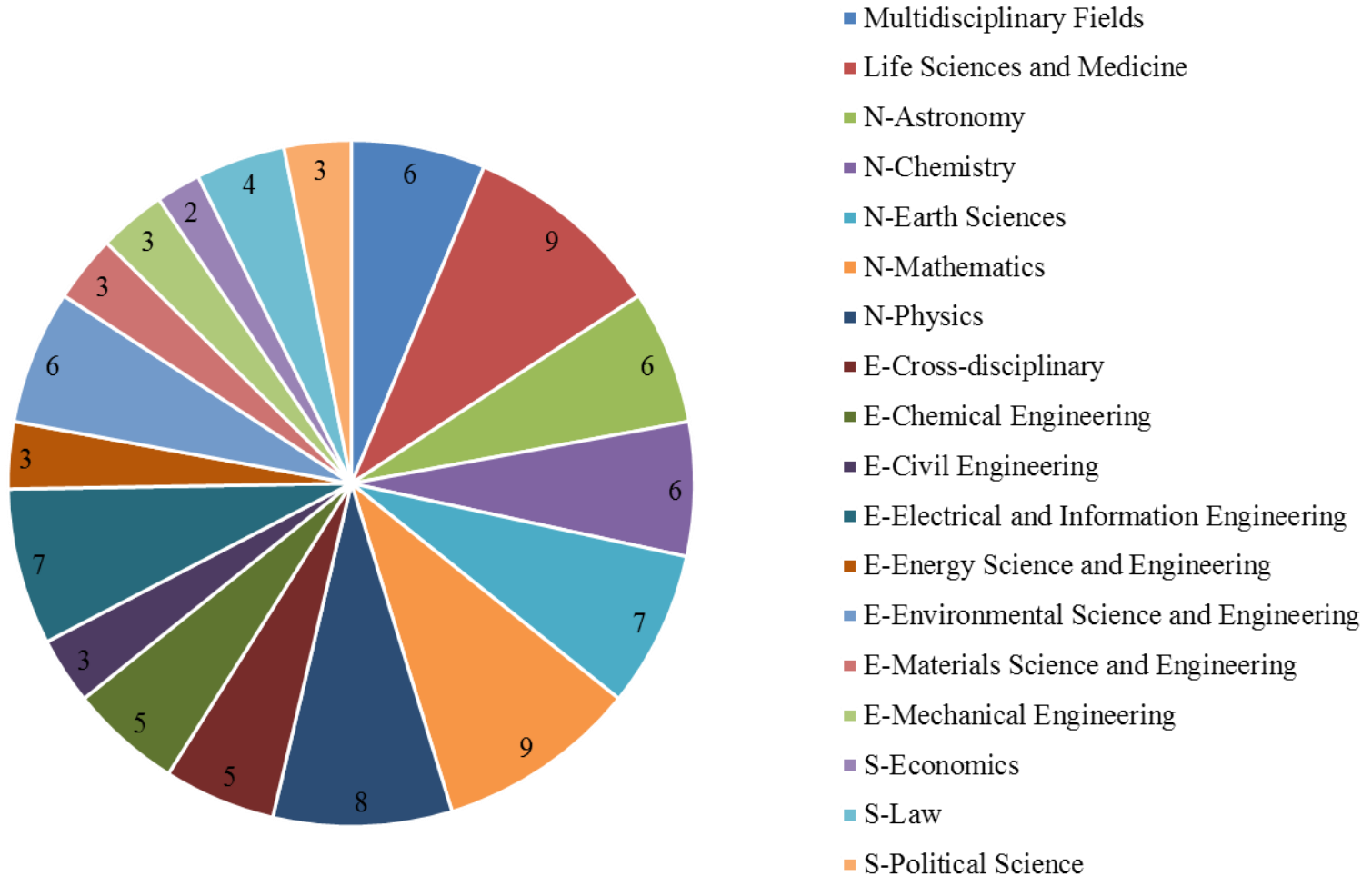
Results

- **Selection criteria for IREG Award List:**
 - Compared to the Nobel prizes with the highest reputation score of 1, all awards with reputation scores equal or higher than 0.50 are selected and included in the “*IREG List of International Academic Awards*”.
 - A few other awards with reputation scores very close to 0.50 and huge amount of prizes are also included.



Results

Distribution of 95 awards in IREG list





Results

Characteristics of 95 selected awards

- Among the 95 selected awards, **46.3%** of awards carry no less than USD 100,000 prize money, and **15.8%** of awards carry no less than USD 1,000,000 prize money.
- **64.2%** of awards were first granted before 1990, and **22.1%** of awards were first granted before 1950.
- **32.6%** of awards were granted at the high-profile ceremonies with the presence of the Royal members, or the heads of state or government.



Thank you very much!