

Amazing growth of “Energy Materials Research” over the last five years

Dear Reader,

We celebrate 5th anniversary of the *Advanced Materials Letters* in this year. At the beginning, we had comprehensively discussed about scope and readership of the journal. Tremendous improvements have been made from the last five years to improve the quality of the journal. Journal aims to join the list of pioneer material's journals in the near future. In this respect, we reorganized our editorial team, as well as web portal, monthly cover page of journal, online submission and review system. In addition to these managerial remodeling, we have decided to compile a series of 'Editorials on the recent developments of Advanced Materials'. In this issue, we publish statistics to describe amazing growth of energy materials research with listing of top ten countries with numbers of documents, citations and h-index as well as top five authors/affiliations, etc.

Although we are mainly interested in the advanced materials research and technology, it is hard to us to realize how much advanced materials world enlarged. Two-thirds of documents in respect to advanced materials have been published within last five years. These documents were related to top seven subject areas including materials science, engineering, chemistry, physics and astronomy, biomedical, energy and computer science. Energy research is one of incredibly growing subject area of advanced materials.

United States and South Korea are most driving countries and produced more than half of all data published in this field with high percentages as 28.25%, 15.80% and 6.80%, respectively (**Fig. 1**).

Likewise, the numbers of documents published by each country are closely related to the numbers on citation received (**Table 1**). It demonstrates that the produced data attracted much more worldwide attentions. However, there is some variation in h-index in relation to international collaborations and impact of the works. The h-indexes for China and United States have already passed three-digits numbers as 108 and 102, respectively. If the ratios of citation/documents are considered, it could be said that the most impactful works have been produced by United States, Germany and Australia. But, this statistics would probably be changed due to variation in citation distributions of each country through the years. By using statistics sourced by Scopus, we also listed the top-five authors from each country as well as top-five institutes with respect to published documents (**Table 2**). The list showed that well-established facilities and well-matched international collaborations are the crucial criteria to be pioneer in the field of advanced and applied materials research and technology.

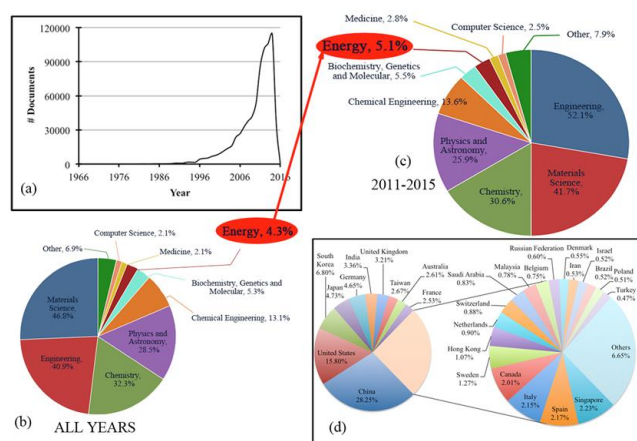


Fig. 1. (a) “Advanced Materials” in literature in respect to time, (b and c) Energy is one of the most studied subject area exponentially grown, (d) country distribution of documents. *All data were collected from Scopus on June 15, 2015.

The relative contribution in the research pie chart increased from 4.3% to 5.1% for last five years. China,

Table 1. Top-ten countries working in the ‘Energy Materials Research’.*

Ranking	Country	Document	Citation	h-index
1.	China	8410	111606	108
2.	USA	4702	77427	102
3.	South Korea	2023	24787	54
4.	Japan	1408	18105	53
5.	Germany	1385	20505	58
6.	India	1001	9291	38
7.	United Kingdom	955	10894	46
8.	Taiwan	794	7344	35
9.	Australia	778	11408	46
10.	France	752	7029	35

*All data were collected from Scopus on June 15, 2015.

Table 2. Top-five authors and affiliations in respect to countries.*

	Top-Five Authors	# Docs.	Top-Five Affiliations	# Docs.		Top-Five Authors	# Docs.	Top-Five Affiliations	# Docs.
China	Shao, Z.	47	Chinese Academy of Sciences	542	India	Ogale, S.	17	Indian Association for the Cultivation of Science	58
	Li, Y.	44	Tsinghua University	340		Basu, S.	12	Bhabha Atomic Research Centre	56
	Kang, F.	42	University of Science and Technology of China	254		Patra, A.	11	Indian Institute of Science	55
	Cao, G.	41	Fudan University	240		Patil, S.	11	National Chemical Laboratory India	41
	Wang, Z.L.	38	Jilin University	229		Mikroyannidis, J.A.	10	National Physical Laboratory India	36
	Gu, C.D.	38	Shanghai Jiaotong University	229		Sharma, G.D.	10		
USA	Wang, Z.L.	51	Georgia Institute of Technology	237	Scott, K.	64	Imperial College London	133	
	Cao, G.	49	Oak Ridge National Laboratory	142	Mamlouk, M.	26	Newcastle University, United Kingdom	122	
	Manthiram, A.	48	Argonne National Laboratory	142	Snaith, H.J.	26	University of Cambridge	90	
	Chen, F.	32	University of Texas at Austin	133	Nelson, J.	25	University of Oxford	76	
	Dai, S.	26	Lawrence Berkeley National Laboratory	128	Heeney, M.	15	UCL	60	
South Korea	Park, J.H.	29	Seoul National University	251	Ho, K.C.	33	National Taiwan University	198	
	Kim, H.K.	26	Korea Advanced Institute of Science & Technology	191	Hu, C.C.	19	National Tsing Hua University	133	
	Sun, Y.K.	25	Sungkyunkwan University	188	Chu, C.W.	17	National Cheng Kung University	128	
	Na, S.I.	25	Pohang University of Science and Technology	165	Hwang, B.J.	16	National Chiao Tung University Taiwan	103	
	Lee, K.	23	Korea University	159	Su, W.F.	16	National Taiwan University of Science and Technology	61	
Japan	Ichikawa, T.	22	National Institute for Materials Science Tsukuba	175	Shao, Z.	31	University of Queensland	122	
	Kojima, Y.	22	Japan Science and Technology Agency	145	Liu, H.K.	26	Monash University	106	
	Zhou, H.	22	Kyoto University	143	Cheng, Y.B.	25	University of Wollongong	99	
	Han, L.	20	National Institute of Advanced Industrial Science and Technology	142	Guo, Z.	20	Curtin University	80	
	Ye, J.	20	Tohoku University	136	Wang, G.	20	University of New South Wales UNSW Australia	69	
Germany	Brabec, C.J.	46	Friedrich-Alexander-Universität Erlangen-Nürnberg	101	Miele, P.	13	CNRS Centre National de la Recherche Scientifique	126	
	Ameri, T.	27	Karlsruhe Institute of Technology	96	Monconduit, L.	12	Université Montpellier 2 Sciences et Techniques	60	
	Winter, M.	24	Technische Universität Dresden	95	Devic, T.	11	Université de Nantes	52	
	Passerini, S.	24	Westfälische Wilhelms-Universität Münster	60	Guyomard, D.	11	Université Pierre et Marie Curie	47	
	Leo, K.	20	Helmholtz-Zentrum Berlin für Materialien und Energie HZB	60	Maurin, G.	11	CEA Grenoble	41	
						Lestriez, B.	11		

* All data were collected from Scopus on June 15, 2015.

With all the best wishes,

**Lokman Uzun, PhD***Associate Editor, Advanced Materials Letters*