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Table 1. Ranking of *JBR* among the top 20 business and management journals.

R	Journal Title	AJG	SJR	Period: 2010-2019			Ranked by		Impact factor	
				TCP	TC	C/CP	TCP	TC	2019	5Y
1	Academy of Management Review	4*	1	291	2,40,510	826.49	14	2	8.413	12.44
2	Academy of Management Journal	4*	3	733	2,66,617	363.73	5	1	7.571	11.853
3	Administrative Science Quarterly	4*	4	193	1,44,974	751.16	19	4	8.391	9.88
4	Journal of Management	4*	5	756	1,37,451	181.81	4	5	8.88	11.847
5	Academy of Management Annals	4	2	518	77,241	149.11	6	8	4.888	7.493
6	Journal of Management Studies	4	6	497	30,159	60.68	8	11	2.958	5.14
7	Business Ethics Quarterly	4	9	182	14,365	78.93	20	17	2.625	4.116
8	British Journal of Management	4	12	501	26,858	53.61	7	12	3.023	4.372
9	Academy of Management Perspectives	3	7	241	14,899	61.82	17	16	5.098	7.714
10	International Journal of Management Reviews	3	8	254	21,374	84.15	15	13	8.631	9.896
12	California Management Review	3	10	249	37,983	152.54	16	9	3.909	6.511
11	Gender and Society	3	10	327	31,527	96.41	12	10	2.742	4.012
13	<i>Journal of Business Research</i>	3	11	3,700	1,30,032	35.14	1	6	4.874	5.484
14	European Management Review	3	13	202	3,500	17.33	18	20	1.533	1.972
15	MIT Sloan Management Review	3	14	343	18,696	54.51	11	14	2.706	3.99
16	Journal of Business Ethics	3	15	3,387	1,47,141	43.44	2	3	4.141	5.455
17	Journal of Management Inquiry	3	17	386	9,572	24.8	10	19	1.778	2.092
18	Business and Society	3	20	323	15,276	47.29	13	15	4.074	4.652
19	Gender, Work and Organization	3	20	445	12,017	27	9	18	3.101	3.547
20	Harvard Business Review	3	25	948	1,19,286	125.83	3	7	5.7	6.856

Notes: This table shows the ranking of *JBR* among the top 20 business and management journals. Here, R = Ranking according to the latest 2018 AJG (Academic Journal Guide) by CABS (Chartered Association of Business Schools), first sorted by AJG, then by Scientific Journal Ranking (SJR) in the Ethics, CSR, and Management field; TCP = Total cited publications, TC = Total citations calculated from Journal Citation Report (JCR) 2020; C/CP = Citations per cited publications; 5Y = Five-years (2015-2019).

Table 2. Annual publication trends of *JBR* special issues

Year	TP	SA	CA	NCA	CNAA	GA	ACI	TCP	TC	C/P	C/CP	C/CP/Y	h	g	PAY	Publications with citation		
																1 - 99	100 - 249	≥250
1988	17	7	10	31	31	31	0.82	15	423	24.88	28.20	0.85	6	15	17	14	1	0
1990	19	4	15	44	74	43	1.32	19	436	22.95	22.95	0.74	13	19	18	19	0	0
1991	9	2	7	17	91	17	0.89	9	67	7.44	7.44	0.25	5	8	15	9	0	0
1993	9	6	3	13	104	13	0.44	8	526	58.44	65.75	2.35	8	8	14	7	1	0
1994	25	5	20	58	159	55	1.32	25	991	39.64	39.64	1.47	13	25	16	22	2	1
1995	24	7	17	48	200	41	1.00	24	1,603	66.79	66.79	2.57	18	24	17	20	2	2
1996	35	7	28	74	262	62	1.11	35	2,197	62.77	62.77	2.51	24	35	20	27	7	1
1997	25	5	20	60	311	49	1.40	22	445	17.80	20.23	0.84	10	21	20	22	0	0
1998	8	2	6	15	326	15	0.88	8	163	20.38	20.38	0.89	7	8	19	8	0	0
2001	49	9	40	109	418	92	1.22	49	3,169	64.67	64.67	3.23	28	49	22	37	11	1
2002	41	8	33	94	497	79	1.29	41	2,841	69.29	69.29	3.65	23	41	24	35	3	3
2003	54	11	43	130	601	104	1.41	53	3,599	66.65	67.91	3.77	28	51	26	42	7	4
2004	136	34	102	299	849	248	1.20	135	9,694	71.28	71.81	4.22	56	96	35	100	30	5
2005	171	29	142	402	1,170	321	1.35	168	12,959	75.78	77.14	4.82	63	109	44	134	25	9
2006	33	10	23	76	1,235	65	1.30	33	1,371	41.55	41.55	2.77	17	33	44	28	4	1
2007	52	9	43	119	1,339	104	1.29	52	3,729	71.71	71.71	5.12	34	52	44	42	8	2
2008	96	25	71	223	1,515	176	1.32	93	5,009	52.18	53.86	4.14	37	69	47	79	11	3
2009	75	8	67	187	1,647	132	1.49	73	4,786	63.81	65.56	5.46	36	69	49	58	12	3
2010	86	17	69	205	1,817	170	1.38	86	4,522	52.58	52.58	4.78	37	65	51	74	10	2
2011	82	13	69	213	1,962	145	1.60	82	2,468	30.10	30.10	3.01	30	47	52	78	4	0
2012	103	18	85	260	2,161	199	1.52	99	3,449	33.49	34.84	3.87	32	55	55	93	5	1
2013	267	20	247	803	2,756	595	2.01	265	10,313	38.63	38.92	4.86	52	86	64	248	14	3
2014	132	21	111	348	2,992	236	1.64	129	3,142	23.80	24.36	3.48	30	47	67	127	2	0
2015	205	18	187	575	3,349	357	1.80	201	3,685	17.98	18.33	3.06	34	45	73	201	0	0
2016	486	50	436	1388	4,169	820	1.86	470	7,740	15.93	16.47	3.29	38	55	90	466	4	0
2017	114	6	108	373	4,429	260	2.27	111	2,400	21.05	21.62	5.41	22	44	91	108	2	1
2018	149	4	145	479	4,696	267	2.21	145	1,222	8.20	8.43	2.81	18	22	93	145	0	0
2019	263	10	253	852	5,219	523	2.24	226	1,234	4.69	5.46	2.73	15	19	99	226	0	0
2020	194	8	186	665	5,622	403	2.43	89	193	0.99	2.17	2.17	5	7	102	89	0	0

Notes: This table shows the publication, authorship pattern, citation structure, influence, impact, activity and productivity of *JBR* SIs published between 1973 and 2020. Here, TP = Total publications, SA = Sole-authored articles, CA = Co-authored articles, NCA = Number of contributing authors, CNAA = Cumulative number of affiliated authors, GA = Growth in authorship, ACI = Annual collaboration index (calculated as NCA/TP - 1), TCP = Total cited publications, TC = Total citations, C/P = Citations per publication, C/CP = Citations per cited publication, C/CP/Y = Citations per cited publication per year, *h* = *h*-index, *g* = *g*-index, and PAY = Productivity per active year.

Table 3. Overview of *JBR*'s special versus regular issues: A comparison

	Special issues	Regular issues
<i>Panel A. Descriptive statistics</i>		
Total publications (TP)	2,959	3,582
Total cited publications (TCP)	2,765	3,153
Total citations (TC)	94,376	1,02,999
Citations per publications (C/P)	31.89	28.75
Citations per cited publication (C/CP)	34.13	32.67
<i>h</i> -index	132	136
<i>g</i> -index	197	214
Number of active years (NAY)	29	48
Productivity per active year (PAY)	102	74.63
Number of authors' affiliating countries (NAAC)	91	84
<i>Panel B. Co-authorship information</i>		
Number of contributing authors (NCA)	8,160	9,029
Number of affiliated authors (excludes repetitions) (NAA)	5,622	6,670
Authors of single-authored documents (ASA)	330	545
Authors of co-authored documents (ACA)	5,403	6,299
Single-authored documents (SA)	373	593
Co-authored documents (CA)	2,586	2,989
Collaboration index (CI)	1.76	1.52
<i>Panel C. Document type</i>		
Article	2,933	3,534
Review	26	48

Notes: This table compares the descriptive indicators of special versus regular issues of *JBR* published between 1973 and 2020.

Table 4. The most cited articles published in *JBR* special issues between 1973 and 2020.

R	TC	Year	Title	Author(s)	C/Y	R (C/Y)
1	783	2005	“The Entrepreneur's Business Model: Toward a Unified Perspective”	Morris, Schindehutte, & Allen	52.2	3
2	781	2013	“Consumer Engagement in a Virtual Brand Community: An Exploratory Analysis”	Brodie, Ilic, Juric, & Hollebeck	111.6	1
3	663	2002	“How Should Companies Interact in Business Networks?”	Hakansson & Ford	36.8	7
4	600	2008	“Advancing Formative Measurement Models”	Diamantopoulos, Riefler, & Roth	50.0	4
5	472	2002	“Organizational Innovation Adoption - A Multi-Level Framework of Determinants and Opportunities for Future Research”	Frambach & Schillewaert	26.2	13
6	447	2005	“Cognitive and Affective Trust in Service Relationships”	Johnson & Grayson	29.8	9
7	436	2005	“Using Case Methods in the Study of Contemporary Business Networks”	Halinen & Tomroos	29.1	10
8	431	2012	“Do Social Media Marketing Activities Enhance Customer Equity? An Empirical Study of Luxury Fashion Brand”	Kim & Ko	53.9	2
9	428	2003	“Consumer Patronage and Risk Perceptions in Internet Shopping”	Forsythe & Shi	25.2	14
10	426	2004	“Developing and Validating Measures of Facets of Customer-Based Brand Equity”	Netemeyer, Krishnan, Pullig, Wang, Yagci, Dean, Ricks, & Wirth	26.6	12
11	420	2009	“Consumer E-Shopping Acceptance: Antecedents in a Technology Acceptance Model”	Ha & Stoel	38.2	5
12	417	2005	“Explaining Consumer Acceptance of Handheld Internet Devices”	Bruner & Kumar	27.8	11
13	407	2008	“Formative Versus Reflective Measurement Models: Two Applications of Formative Measurement”	Coltman, Devinney, Midgley, & Venaik	33.9	8
14	381	2010	“Engagement, Telepresence and Interactivity in Online Consumer Experience: Reconciling Scholastic and Managerial Perspectives”	Mollen & Wilson	38.1	6
15	376	2005	“Emotions in Consumer Behavior: A Hierarchical Approach”	Laros & Steenkamp	25.1	15
16	375	2001	“Atmospheric Qualities of Online Retailing - A Conceptual Model and Implications”	Eroglu, Machleit, & Davis	19.7	19
17	371	2003	“Network Competence: Its Impact on Innovation Success and its Antecedents”	Ritter & Gemunden,	21.8	17
18	363	1996	“Measuring Performance in Entrepreneurship Research”	Murphy, Trailer, & Hill	15.1	20
19	361	2003	“The Influence of Technology Anxiety on Consumer Use and Experiences with Self-Service Technologies”	Meuter, Ostrom, Bitner, & Roundtree	21.2	18
20	356	2004	“Gender Differences in the Perceived Risk of Buying Online and the Effects of Receiving a Site Recommendation”	Garbarino & Strahilevitz	22.3	16

Notes: This table shows the most cited articles published in *JBR* SIs between 1973 and 2020. Here, R = Ranked by TC = Total citations; C/Y = Citations per year.

Table 5. Top authors in *JBR* special issues between 1973 and 2020

Sl.	Author	TP	SA	CA	NCA	CI	TCP	TC	C/CP	h	g	NAY	PAY	Publications with citations			Ranked by	
														1-50	51-99	≥100	TC	C/CP
1	Michel Laroche	33	3	30	100	2.03	31	1,254	40.45	19	31	17	1.94	24	5	2	3	10
2	Kun-Huang Huarng	25	5	20	51	1.04	23	342	14.87	11	18	7	3.57	22	1	-	15	21
3	Jean-Charles Chebat	21	-	21	57	1.71	20	1,457	72.85	16	20	12	1.75	10	7	3	1	2
4	Esteban R. Brenes	16	-	16	52	2.25	14	267	19.07	8	14	8	2.00	13	1	-	16	19
5	Barry J. Babin	13	-	13	44	2.38	13	1,368	105.23	11	13	8	1.63	7	-	6	2	1
6	Boris Bartikowski	13	-	13	35	1.69	11	358	32.55	8	11	8	1.63	7	3	1	12	14
7	Margot Cleveland	13	-	13	37	1.85	13	626	48.15	11	13	10	1.30	8	4	1	6	8
8	Eunju Ko	13	1	12	42	2.23	12	783	65.25	11	12	7	1.86	9	2	1	4	3
9	Gianfranco Walsh	13	-	13	45	2.46	13	569	43.77	8	13	9	1.44	8	3	2	8	9
10	Adamantios Diamantopoulos	12	-	12	39	2.25	12	760	63.33	7	12	5	2.40	11	-	1	5	4
11	Vinit Parida	12	-	12	45	2.75	10	107	10.70	7	10	4	3.00	10	-	-	26	27
12	Jaokim Wincent	12	-	12	41	2.42	10	75	7.50	5	8	4	3.00	10	-	-	28	29
13	John W. Cadogan	11	-	11	46	3.18	10	483	48.30	8	10	9	1.22	7	2	1	9	7
14	Pejvak Oghazi	11	1	10	43	2.91	8	116	14.50	6	8	5	2.20	7	1	-	23	23
15	Pierre Valette-Florence	11	-	11	30	1.73	11	598	54.36	7	11	7	1.57	7	2	2	7	5
16	Chih-Wen Wu	11	8	3	17	0.55	11	162	14.73	9	11	5	2.20	11	-	-	21	22
17	Zhiyong Yang	11	-	11	43	2.91	10	247	24.70	9	10	9	1.22	9	1	-	18	18
18	Wesley J. Johnston	10	-	10	27	1.70	10	255	25.50	7	10	5	2.00	7	3	-	17	17
19	Ribeiro-Soriano D	10	-	10	29	1.90	9	345	38.33	8	9	4	2.50	6	3	-	13	12
20	Marie-Odile Richard	10	-	10	28	1.80	9	359	39.89	8	9	9	1.11	6	3	-	11	11
21	Tifany Hui-Kuang Yu	10	1	9	25	1.50	9	129	14.33	5	9	6	1.67	8	1	-	22	24
22	Jorge Carneiro	9	-	9	29	2.22	8	103	12.88	4	8	6	1.50	7	1	-	27	25
23	Suraksha Gupta	9	-	9	39	3.33	9	235	26.11	6	8	4	2.25	8	1	-	19	15
24	Kyung Hoon Kim	9	-	9	33	2.67	9	230	25.56	6	9	6	1.50	8	-	1	20	16
25	Sascha Kraus	9	-	9	35	2.89	9	345	38.33	7	9	6	1.50	8	-	1	13	12
26	Hanjoon Lee	9	-	9	32	2.56	9	439	48.78	6	9	6	1.50	7	-	2	10	6
27	Alicia Mas-Tur	9	-	9	25	1.78	9	109	12.11	6	9	3	3.00	9	-	-	25	26
28	Milena Micevski	9	-	9	36	3.00	9	44	4.89	4	6	5	1.80	9	-	-	30	30
29	Morgan P.Miles	9	-	9	36	3.00	7	110	15.71	6	7	5	1.80	7	-	-	24	20
30	Arch G. Woodside	9	2	7	18	1.00	8	73	9.13	5	8	7	1.29	8	-	-	29	28

Notes: This table shows the publication trend, authorship pattern, citation structure, influence, impact, activity, productivity, and ranking of the top authors publishing in *JBR* SIs between 1973 and 2020. Here, TP = Total publications, SA = Sole-authored articles, CA = Co-authored articles, NCA = Number of contributing authors, CI = Collaboration index, TCP = Total cited publications, TC = Total citations, C/CP = Citations per cited publication, h = h -index, g = g -index, NAY = Number of active years, and PAY = Productivity per active year. Ordering of the authors are based on their TP and initials in case of ties.

Table 6. Top institutions affiliated to *JBR* special issue authors between 1973 and 2020

Sl.	Institution	TP	SA	CA	NAA	NCA	CI	TCP	TC	C/CP	<i>h</i>	<i>g</i>	NAY	PAY	Publication with citations			Ranked by	
															1-50	51-99	≥100	TC	C/CP
1	Univ Valencia	102	1	101	170	294	1.88	92	1,408	15.30	22	32	11	9.27	87	5	-	3	26
2	Incae Business Sch	58	9	49	74	137	1.36	49	380	7.76	10	17	10	5.80	48	1	-	24	31
3	Feng Chia Univ	49	12	37	47	110	1.24	47	843	17.94	19	27	9	5.44	44	3	-	13	24
4	Univ Lisbon	40	2	38	73	125	2.13	30	267	8.90	10	14	5	8.00	29	1	-	28	30
5	Concordia Univ	39	3	36	57	116	1.97	37	1,467	39.65	21	37	15	2.60	28	7	2	1	11
6	Univ Alabama	38	0	38	139	170	3.47	36	1,466	40.72	20	36	16	2.38	25	8	3	2	10
7	Univ Leeds	33	1	32	82	113	2.42	32	717	22.41	14	26	9	3.67	29	2	1	18	19
8	Univ Politecn Valencia	30	0	30	54	96	2.20	26	486	18.69	12	21	7	4.29	24	2	-	21	22
9	Univ Manchester	28	0	28	116	128	3.57	18	404	22.44	10	18	10	2.80	16	1	1	23	18
10	Yonsei Univ	28	1	27	68	97	2.46	27	1,159	42.93	19	27	10	2.80	20	4	3	6	7
11	Univ Vienna	27	1	26	45	85	2.15	27	1,003	37.15	10	27	9	3.00	24	2	1	8	13
12	Kedge Business Sch	26	3	23	53	72	1.77	22	215	9.77	9	13	7	3.71	22	-	-	30	29
13	Univ Seville	26	0	26	57	93	2.58	25	757	30.28	15	25	8	3.25	20	4	1	17	15
14	Univ Wisconsin	26	1	25	93	99	2.81	26	1,243	47.81	17	26	15	1.73	18	4	4	4	2
15	Cardiff Univ	25	2	23	47	70	1.80	23	677	29.43	12	23	10	2.50	21	1	1	19	16
16	City Univ Hong Kong	25	0	25	70	80	2.20	24	778	32.42	12	24	9	2.78	20	2	2	16	14
17	Univ Lancaster	25	3	22	93	101	3.04	23	563	24.48	11	23	13	1.92	18	5	-	20	17
18	Hong Kong Polytech Univ	24	3	21	84	88	2.67	23	956	41.57	15	23	9	2.67	17	2	4	10	9
19	Monash Univ	24	0	24	70	81	2.38	23	1,015	44.13	15	23	12	2.00	16	3	4	7	4
20	Hanken Sch Econ	22	1	21	57	79	2.59	18	380	21.11	8	18	7	3.14	17	-	1	24	21
21	Univ Illinois	22	2	20	42	56	1.55	22	830	37.73	15	22	11	2.00	16	5	1	14	12
22	Univ Newcastle	22	1	21	53	69	2.14	22	479	21.77	15	21	11	2.00	22	-	-	22	20
23	Univ Sydney	22	5	17	48	57	1.59	21	904	43.05	12	21	14	1.57	18	-	3	11	5
24	Univ Vaasa	22	3	19	38	69	2.14	19	310	16.32	9	17	6	3.67	17	2	-	26	25
25	Georgia State Univ	21	1	20	44	57	1.71	21	1,163	55.38	16	21	8	2.63	14	4	3	5	1
26	Hec Montreal	21	0	21	46	63	2.00	21	899	42.81	16	21	11	1.91	12	9	-	12	8
27	Univ Western Ontario	21	0	21	43	67	2.19	21	1,002	47.71	15	21	13	1.62	13	6	2	9	3
28	Lulea Univ Technol	20	1	19	34	67	2.35	18	262	14.56	8	16	6	3.33	16	2	-	29	27
29	Univ Birmingham	20	0	20	63	68	2.40	16	295	18.44	7	16	10	2.00	15	-	1	27	23
30	Aston Univ	19	1	18	48	57	2.00	19	816	42.95	10	19	6	3.17	14	3	2	15	6
31	Linnaeus Univ	19	2	17	32	56	1.95	15	164	10.93	7	12	5	3.80	14	1	-	31	28

Notes: This table shows the publication trend, authorship pattern, citation structure, influence, impact, activity, productivity, and ranking of the top institutions affiliated to *JBR* SI authors between 1973 and 2020. Here, TP = Total publications, SA = Sole-authored articles, CA = Co-authored articles, NCA = Number of contributing authors, CI = Collaboration index, TCP = Total cited publications, TC = Total citations, C/CP = Citations per cited publication, *h* = *h*-index, *g* = *g*-index, NAY = Number of active years, and PAY = Productivity per active year. Ordering of the institutions are based on their TP and initials in case of ties.

Table 7. Top countries affiliated to *JBR* special issue authors between 1973 and 2020

Sl.	Country	TP	SA	CA	NAA	NCA	CI	TCP	TC	C/CP	h	g	NAY	PAY	SCP	MCP	SCP (%)	Publications with citations			Ranked by	
																		1-50	51-99	100	TC	C/CP
1	USA	997	115	882	2193	2,902	1.91	933	38,423	41.18	98	149	27	36.93	545	452	55	712	126	95	1	9
2	UK	392	25	367	1050	1,343	2.43	356	11,207	31.48	53	91	21	18.67	154	238	39	300	34	22	2	15
3	Spain	299	4	295	604	920	2.08	272	6,029	22.17	39	62	18	16.61	196	103	66	244	19	9	5	23
4	Australia	258	18	240	618	807	2.13	245	9,295	37.94	50	85	21	12.29	110	148	43	195	25	25	3	12
5	Canada	209	10	199	462	649	2.11	198	7,802	39.40	51	79	22	9.50	74	135	35	145	40	13	4	11
6	China	196	8	188	526	649	2.31	187	4,193	22.42	32	53	19	10.32	69	127	35	171	8	8	9	21
7	France	189	9	180	498	624	2.30	173	4,975	28.76	37	64	19	9.95	54	135	29	148	16	9	7	18
8	Germany	145	11	134	367	467	2.22	137	5,117	37.35	40	67	20	7.25	53	92	37	104	19	14	6	13
9	Taiwan	122	29	93	230	335	1.75	116	2,592	22.34	28	44	17	7.18	86	36	70	104	9	3	12	22
10	South Korea	117	8	109	238	344	1.94	113	4,589	40.61	36	65	16	7.31	46	71	39	87	12	14	8	10
11	Portugal	99	7	92	205	311	2.14	86	1,819	21.15	20	40	13	7.62	58	41	59	77	7	2	16	24
12	Sweden	97	9	88	211	315	2.25	86	1,762	20.49	22	39	12	8.08	30	67	31	75	9	2	17	25
13	Finland	80	6	74	197	276	2.45	71	2,175	30.63	21	45	12	6.67	20	60	25	58	10	3	14	16
14	Italy	73	3	70	230	269	2.68	57	1,072	18.81	18	31	12	6.08	18	55	25	51	5	1	24	26
15	Netherlands	71	3	68	199	225	2.17	70	3,567	50.96	29	59	20	3.55	22	49	31	53	10	7	10	1
16	New Zealand	67	7	60	166	196	1.93	64	3,073	48.02	24	55	19	3.53	21	46	31	52	4	8	11	3
17	Chile	61	8	53	110	161	1.64	59	1,099	18.63	19	31	12	5.08	32	29	52	53	4	2	23	27
18	Wales	57	5	52	126	162	1.84	53	2,492	47.02	24	49	14	4.07	10	47	18	43	4	6	13	4
19	Austria	52	4	48	100	154	1.96	51	1,832	35.92	18	42	10	5.20	22	30	42	43	4	4	15	14
20	Brazil	48	1	47	127	153	2.19	43	582	13.53	13	22	12	4.00	24	24	50	41	2	0	28	28
21	Costa Rica	46	9	37	61	113	1.46	39	377	9.67	8	18	9	5.11	30	16	65	37	2	0	29	29
22	Mexico	44	10	34	116	129	1.93	43	1,030	23.95	17	31	16	2.75	10	34	23	39	2	2	25	19
23	Switzerland	37	1	36	109	126	2.41	33	785	23.79	15	27	11	3.36	2	35	5	28	4	1	26	20
24	India	36	1	35	125	139	2.86	32	1,493	46.66	17	32	13	2.77	6	30	17	21	5	6	19	5
25	Norway	36	2	34	117	135	2.75	31	1,555	50.16	17	31	13	2.77	9	27	25	23	5	3	18	2
26	Belgium	32	0	32	105	124	2.88	27	1,142	42.30	14	27	13	2.46	10	22	31	22	3	2	22	7
27	Denmark	32	2	30	81	100	2.13	30	1,369	45.63	17	30	11	2.91	10	22	31	22	4	4	20	6
28	Scotland	32	1	31	85	98	2.06	28	1,165	41.61	15	28	12	2.67	5	27	16	22	3	3	21	8
29	Oman	28	1	27	72	85	2.04	23	681	29.61	10	23	10	2.80	5	23	18	18	3	2	27	17
30	Poland	26	5	21	51	69	1.65	21	199	9.48	9	13	6	4.33	16	10	62	21	0	0	30	30

Notes: This table shows the publication trend, authorship pattern, citation structure, influence, impact, activity, productivity, and ranking of the top countries affiliated to *JBR* SI authors between 1973 and 2020. Here, TP = Total publications, SA = Sole-authored articles, CA = Co-authored articles, NCA = Number of contributing authors, CI = Collaboration index, TCP = Total cited publications, TC = Total citations, C/CP = Citations per cited publication, $h = h$ -index, $g = g$ -index, NAY = Number of active years, PAY = Productivity per active year, SCP = Single country publications, and MCP = Multiple countries publications. Ordering of the countries are based on their TP and initials in case of ties.

Table 8. Top authors and authors' affiliations citing *JBR* special issues between 1973 and 2020

R	Authors	TCP	Institution	TCP	Countries	TCP
1	Kim J	149	Hong Kong Polytech Univ	547	USA	13,365
2	Lee S	145	Univ Valencia	454	China	6,836
3	Lee J	124	Griffith Univ	415	UK	5,652
4	Wang Y	111	Monash Univ	364	Australia	4,040
5	Kim S	107	Penn State Univ	307	Spain	3,960
6	Han H	101	City Univ Hong Kong	293	Taiwan	3,119
7	Gupta S	98	Univ Queensland	288	Germany	2,886
8	Li Y	93	Univ Manchester	287	South Korea	2,327
9	Li J	90	Michigan State Univ	281	Canada	2,203
10	Liu Y	87	Univ Nottingham	265	France	2,101
11	Kim Y	82	Univ Leeds	263	Italy	1,997
12	Lee H	82	Univ Tennessee	261	India	1,923
13	Kim M	79	Queensland Univ Technol	253	Malaysia	1,704
14	Zhang J	78	Sun Yat Sen Univ	252	Netherlands	1,639
15	Sharma P	75	Islamic Azad Univ	246	Finland	1,400
16	Wang L	69	Univ Seville	246	Sweden	1,287
17	Nguyen B	67	Aalto Univ	245	Turkey	1,211
18	Park J	66	Univ Granada	244	Portugal	1,179
19	Kraus S	65	Univ Alabama	234	Brazil	1,091
20	Laroche M	65	Florida State Univ	231	New Zealand	932

Notes: This table shows the top authors' and authors' affiliations citing *JBR* SIs between 1973 and 2020. Here, R = Ranked by TCP = Total cited publications.

Table 9. Knowledge outflows and inflows in *JBR* special issues between 1973 and 2020

Journal citing <i>JBR</i> SIs (Knowledge Outflows)	R	AJG	ABDC	TCP	Journal cited in <i>JBR</i> SIs (Knowledge Inflows)	R	AJG	ABDC	TCP	TLS
Journal of Business Research	1	3	A	3140	Journal of Business Research	1	3	A	7421	310341
Sustainability	2	NR	NR	1175	Journal of Marketing	2	4*	A*	6263	274978
Industrial Marketing Management	3	3	A*	975	Journal of Consumer Research	3	4*	A*	4848	183701
Journal of Retailing & Consumer Services	4	2	A	665	Journal of Marketing Research	4	4*	A*	3858	170346
European Journal of Marketing	5	3	A*	659	Strategic Management Journal	5	4*	A*	2890	141954
Journal of Business Industrial Marketing	6	2	A	496	Journal of the Academy of Marketing Science	6	4*	A*	2176	111910
Journal of Business Ethics	7	3	A	485	Academy of Management Journal	7	4*	A*	2026	98435
International Journal of Hospitality Management	8	3	A*	460	Academy of Management Review	8	4*	A*	1931	93664
Psychology & Marketing	9	3	A	454	Journal of International Business Studies	9	4*	A*	1725	82188
Journal of Cleaner Production	10	2	A	437	Journal of Retailing	10	4	A*	1480	65518
Computers in Human Behavior	11	3	A	392	Journal of Personality & Social Psychology	11	4	A*	1273	54893
Journal of Services Marketing	12	2	A	391	Industrial Marketing Management	12	3	A*	1190	62524
Tourism Management	13	4	A*	387	European Journal of Marketing	13	3	A*	1123	62458
Service Industries Journal	14	2	B	361	Harvard Business Review	14	3	A	1092	49677
International Journal of Contemporary Hospitality Management	15	3	A	338	Management Science	15	4*	A*	981	45881
Management Decision	16	2	B	315	Journal of Management	16	4*	A*	959	52373
Technological Forecasting & Social Change	17	3	A	303	Organization Science	17	4*	A*	941	48845
International Marketing Review	18	3	A	279	Advances in Consumer Research	18	2	B	928	40549
Journal of the Academy of Marketing Science	19	4*	A*	266	Psychology & Marketing	19	3	A	912	44649
Journal of Service Management	20	2	A	238	Journal of Applied Psychology	20	4*	A*	901	42259

Notes: This table shows the destination of knowledge outflows and the sources of knowledge inflows in *JBR* SIs between 1973 and 2020. Here, R = Ranked by TCP = Total cited publications; AJG (Academic Journal Guide) rating-2018 by CABS (Chartered Association of Business Schools); ABDC (Australian Business Deans Council) rating-2019; TLS = Total link strength; NR = Not rated

Table 10. Overview of the seven *JBR* special issue clusters between 1973 and 2020

Cluster	Central focus	Major topics explored	TP	TC	Most cited articles				
					Titles	Author(s)	Year	TC	C/Y
1	Consumer behavior of emerging technologies	Online retailing, innovation adoption, emotions	776	32,032	“Organizational Innovation Adoption - A Multi-Level Framework of Determinants and Opportunities for Future Research”	Frambach & Schillewaert	2002	472	26.22
					“Do Social Media Marketing Activities Enhance Customer Equity? An Empirical Study of Luxury Fashion Brand”	Kim & Ko	2012	431	53.88
					“Consumer Patronage and Risk Perceptions in Internet Shopping”	Forsythe & Shi	2003	428	25.18
					“Consumer E-Shopping Acceptance: Antecedents in a Technology Acceptance Model”	Ha & Stoel	2009	420	38.18
					“Engagement, Telepresence and Interactivity in Online Consumer Experience: Reconciling Scholastic and Managerial Perspectives”	Mollen & Hugh	2010	381	38.1
2	Organizational resources & networks	Entrepreneurship, business networks, organizational resources	723	20,149	“The Entrepreneur's Business Model: Toward a Unified Perspective”	Morris, Schindehutte, & Allen	2005	783	52.2
					“How Should Companies Interact in Business Networks?”	Hakansson & Ford	2002	663	36.83
					“Using Case Methods in the Study of Contemporary Business Networks”	Halinen & Tomroos	2005	436	29.07
					“Measuring Performance in Entrepreneurship Research”	Murphy, Trailer, & Hill	1996	363	15.13
					“Benefits Associated with Supplier Integration into New Product Development Under Conditions of Technology Uncertainty”	Ragatz, Handfield, & Petersen	2002	324	18
3	Dynamics of consumer power in marketing	Consumer-brand relationships, brand communities, co-creation, customer identity	425	13,101	“Consumer Engagement in a Virtual Brand Community: An Exploratory Analysis”	Brodie, Ilic, Juric, & Hollebeek	2013	781	111.57
					“Customer Value Co-Creation Behavior: Scale Development and Validation”	Yi & Gong	2013	335	47.86
					“Consumption Experience, Customer Value, and Subjective Personal Introspection: An Illustrative Photographic Essay”	Holbrook	2006	296	21.14
					“Co-Creating Brands: Diagnosing and Designing the Relationship Experience”	Payne, Storbacka, Frow, & Knox	2009	280	25.45

Cluster	Central focus	Major topics explored	TP	TC	Most cited articles				
					Titles	Author(s)	Year	TC	C/Y
4	Measurement issues	Formative measures, valid measurements, firm performance, customer evaluations	264	11,668	“Co-Creating Value For Luxury Brands”	Tynan, Mckechnie, & Chhuon	2010	270	27
					“Advancing Formative Measurement Models”	Diamantopoulos, Riefler, & Roth	2008	600	50
					“Cognitive and Affective Trust in Service Relationships”	Johnson & Grayson	2005	447	29.8
					“Developing and Validating Measures of Facets of Customer-Based Brand Equity”	Netemeyer, Krishnan, Pullig, Wang, Yagci, Dean, Ricks, & Wirth	2004	426	26.63
					“Explaining Consumer Acceptance of Handheld Internet Devices”	Bruner & Kumar	2005	417	27.8
5	Globalization of marketing	Cross-cultural research, Global consumer culture, young customers, big data and analytics	216	7,025	“Formative Versus Reflective Measurement Models: Two Applications of Formative Measurement”	“Coltman, Devinney, Midgley, & Venaik	2008	407	33.92
					“Hofstede's Dimensions of Culture in International Marketing Studies”	Soares, Farhangmehr, & Shoham	2007	262	20.15
					“The Recycling of Solid-Wastes - Personal Values, Value Orientations, and Attitudes about Recycling as Antecedents of Recycling Behavior”	Mccarty & Shrum	1994	262	10.08
					“Critical Analysis of Big Data Challenges and Analytical Methods”	Sivarajah, Kamal, Irani, & Weerakkody	2017	254	84.67
					“Acculturaton to the Global Consumer Culture: Scale Development and Research Paradigm”	Cleveland & Laroche	2007	230	17.69
6	Future-oriented strategies & tools	Predictive modeling, Fuzzy set analysis, incubators, innovation	206	2,887	“What Drives College-Age Generation Y Consumers?”	Noble, Haytko, & Phillips	2009	187	17
					“The Elephant in the Room: Predictive Performance of PLS Models”	Shmueli, Ray, Estrada, & Chatla	2016	118	29.5
					“Firm Survival: The Role of Incubators and Business Characteristics”	Mas-Verdu, Ribeiro-Soriano, & Roig-Tierno	2015	69	13.8
					“Green Buying Behavior and the Theory of Consumption Values: A Fuzzy-Set Approach”	Goncalves, Lourenco, & Silva	2016	59	14.75

Cluster	Central focus	Major topics explored	TP	TC	Most cited articles				
					Titles	Author(s)	Year	TC	C/Y
					“How Important is Customer Orientation for Firm Performance? A Fuzzy Set Analysis of Orientations, Strategies, and Environments	Frambach, Fiss, & Ingenbleek	2016	49	12.25
					“Viral Effects Of Social Network and Media on Consumers' Purchase Intention”	Gunawan & Huarng	2015	47	9.4
7	Market relationships	Commitment, trust, market orientation	158	7,518	“Network Competence: Its Impact on Innovation Success and Its Antecedents”	Ritter & Gemunden	2003	371	21.82
					“Trust And Commitment Influences on Customer Retention: Insights from Business-to-Business Services”	Gounaris	2005	273	18.2
					“A Meta-Analysis of the Relationship between Organizational Commitment and Salesperson Job Performance: 25 Years of Research”	Jaramillo, Mulki, & Marshall	2005	184	12.27
					“The RELQUAL Scale: A Measure of Relationship Quality in Export Market Ventures”	Lages, Lages, & Lages	2005	175	11.67
					“Antecedents and Benefits of Corporate Citizenship: An Investigation of French Businesses”	Maignan & Ferrell	2001	164	8.63

Notes: This table lists the seven bibliographic coupling clusters formed by 2,768 *JBR* special issue articles cited at least once between 1973 and 2020. It also highlights the central focus of the clusters and the major topics explored. The top five cited articles from each cluster form the representative set. Here, TP = Total publications; TC = Total citations; C/Y = Citations per year.

Table 11. Countries represented in *JBR*'s special versus regular issues

Special Issue						Regular Issue																	
Sl.	Country	TP	TC	Sl.	Country	TP	TC	Sl.	Country	TP	TC	Sl.	Country	TP	TC	Sl.	Country	TP	TC				
1	USA	997	38,423	32	Turkey	24	602	63	Jamaica	4	47	1	USA	1,468	43,803	32	Brazil	19	326	63	Slovenia	3	134
2	UK	392	11,207	33	Ireland	23	913	64	Jordan	4	93	2	UK	312	8,047	33	Poland	17	199	64	Macedonia	3	52
3	Spain	299	6,029	34	Japan	23	576	65	Nigeria	4	102	3	China	259	4,839	34	Japan	16	416	65	Argentina	2	4
4	Australia	258	9,295	35	Nicaragua	23	82	66	Argentina	3	113	4	Australia	227	6,738	35	UAE	16	221	66	Czech Republic	2	2
5	Canada	209	7,802	36	Singapore	23	705	67	Czech Republic	3	16	5	France	175	2,140	36	Israel	14	319	67	Hungary	2	113
6	China	196	4,193	37	Greece	21	868	68	Hungary	3	83	6	Canada	167	5,604	37	Chile	14	302	68	Iceland	2	18
7	France	189	4,975	38	Colombia	19	457	69	Laos	3	30	7	Germany	158	4,310	38	Oman	14	414	69	Kazakhstan	2	-
8	Germany	145	5,117	39	Israel	16	560	70	Lithuania	3	46	8	Taiwan	157	4,033	39	Costa Rica	13	286	70	Lithuania	2	31
9	Taiwan	122	2,592	40	UAE	16	310	71	Uruguay	3	18	9	Spain	128	4,810	40	Iran	11	473	71	Malta	2	99
10	South Korea	117	4,589	41	Slovenia	15	374	72	Vietnam	3	24	10	South Korea	122	3,918	41	Russia	10	50	72	Morocco	2	33
11	Portugal	99	1,819	42	Peru	13	77	73	Bulgaria	2	12	11	India	110	1,521	42	Cyprus	10	450	73	Nigeria	2	67
12	Sweden	97	1,762	43	Bosnia & Herceg	10	46	74	Cyprus	2	61	12	Hong Kong	77	2,227	43	Colombia	9	201	74	Venezuela	2	65
13	Finland	80	2,175	44	Malaysia	10	251	75	Kuwait	2	49	13	Netherlands	72	1,778	44	Saudi Arabia	9	174	75	Liechtenstein	2	22
14	Italy	73	1,072	45	Romania	10	25	76	Tunisia	2	10	14	Italy	69	1,021	45	Pakistan	8	37	76	Romania	2	48
15	Netherlands	71	3,567	46	Russia	9	156	77	Bahrain	1	15	15	Sweden	58	2,492	46	Jordan	8	199	77	Bahrain	1	79
16	New Zealand	67	3,073	47	Thailand	9	129	78	Bangladesh	1	8	16	Belgium	54	1,275	47	Vietnam	7	177	78	Bangladesh	1	1
17	Chile	61	1,099	48	Ghana	8	45	79	Barbados	1	1	17	New Zealand	52	780	48	Lebanon	7	99	79	Bosnia & Herceg	1	8
18	Wales	57	2,492	49	North Ireland	8	243	80	Cameroon	1	8	18	Finland	49	564	49	Thailand	6	224	80	Croatia	1	-
19	Austria	52	1,832	50	Saudi Arabia	8	286	81	El Salvador	1	21	19	Austria	48	2,128	50	Monaco	5	104	81	Estonia	1	1
20	Brazil	48	582	51	Ecuador	7	25	82	Estonia	1	10	20	Wales	47	1,902	51	Egypt	5	62	82	Ghana	1	-
21	Costa Rica	46	377	52	Liechtenstein	7	417	83	Guatemala	1	-	21	Switzerland	43	1,187	52	South Africa	5	26	83	Namibia	1	5
22	Mexico	44	1,030	53	South Africa	7	100	84	Kazakhstan	1	3	22	Portugal	40	797	53	Indonesia	4	32	84	Uruguay	1	5
23	Switzerland	37	785	54	Croatia	6	122	85	Kenya	1	-	23	Norway	36	846	54	Ecuador	4	17				
24	India	36	1,493	55	Egypt	6	103	86	Mauritius	1	17	24	Scotland	35	797	55	Qatar	4	80				
25	Norway	36	1,555	56	Indonesia	6	97	87	Morocco	1	8	25	Turkey	32	980	56	Tunisia	4	9				
26	Belgium	32	1,142	57	Monaco	6	53	88	Palestine	1	-	26	Denmark	27	539	57	Peru	4	56				
27	Denmark	32	1,369	58	Philippines	6	130	89	Qatar	1	2	27	Malaysia	25	782	58	Jamaica	4	33				
28	Scotland	32	1,165	59	Lebanon	5	64	90	Rwanda	1	13	28	Greece	23	953	59	Kuwait	3	49				
29	Oman	28	681	60	Pakistan	5	72	91	Slovakia	1	5	29	Singapore	21	713	60	Luxembourg	3	74				
30	Poland	26	199	61	Venezuela	5	60	92	Syria	1	-	30	Mexico	21	344	61	North Ireland	3	56				
31	Iran	24	737	62	Iceland	4	42	93	Tanzania	1	16	31	Ireland	20	356	62	Philippines	3	12				

Notes: This table ranks the countries by TP represented in *JBR*'s special versus regular issues. Here, TP = Total publications, and TC = Total citations.

Table 12. Themes covered in *JBR*'s special versus regular issues

Special issue					Regular issue				
Sl.	Theme	OC	AC	APY	Theme	OC	AC	APY	
1	FSQCA	105	9.9	2017.3	Innovation	68	35.26	2015.0	
2	Innovation	97	35.0	2015.0	Performance	55	41.73	2012.9	
3	Consumer behaviour	63	38.2	2011.4	Trust	54	28.63	2013.2	
4	Entrepreneurship	58	24.1	2015.8	Corporate social responsibility	38	31.95	2016.4	
5	Performance	53	25.8	2013.7	Firm performance	35	36.23	2014.8	
6	(Cross) Culture	48	27.4	2013.3	Customer satisfaction	26	62.00	2011.5	
7	Trust	48	63.2	2011.4	FSQCA	26	10.81	2017.1	
8	Marketing (strategy)	47	31.5	2011.4	Market orientation	26	42.65	2010.9	
9	Advertising	41	28.8	2011.5	Consumer behavior	23	34.52	2013.0	
10	Corporate social responsibility	38	46.7	2014.1	Commitment	22	47.82	2012.3	
11	Customer Satisfaction	36	66.8	2011.8	Advertising	21	11.14	2015.9	
12	Market orientation	31	64.5	2011.2	Corporate governance	21	15.67	2014.1	
13	Firm performance	29	48.3	2014.8	Scale development	21	35.29	2014.9	
14	Internet	28	55.4	2008.0	Entrepreneurship	19	22.95	2015.4	
15	Brand equity	27	53.0	2013.6	Gender	19	15.89	2014.9	
16	Emerging markets	27	11.2	2015.9	Leadership	19	12.21	2015.1	
17	Loyalty	27	64.7	2012.3	Organizational learning	19	56.00	2012.1	
18	Retailing	27	35.8	2012.3	Social media	19	11.47	2018.2	
19	Commitment	26	63.7	2010.5	Branding	18	37.83	2015.8	
20	Gender	24	40.1	2012.6	Emotions	18	61.17	2013.3	
21	Service quality	24	67.2	2009.8	Entrepreneurial orientation	18	25.00	2016.8	
22	Social marketing	23	34.7	2012.7	Absorptive capacity	17	46.94	2015.4	
23	e-commerce	22	42.9	2011.8	Emerging markets	17	16.41	2016.2	
24	Internationalization	22	20.6	2014.4	Job satisfaction	16	49.00	2010.1	
25	Luxury	22	32.5	2016.5	Resource-based view	16	24.19	2012.6	
26	Sustainability	22	23.0	2016.5	Creativity	15	56.00	2015.7	
27	Co-creation	20	52.8	2015.8	(Cross) Culture	15	13.53	2015.3	
28	Corporate governance	20	23.6	2013.1	Internationalization	15	28.33	2014.1	
29	Branding	19	32.6	2013.9	Loyalty	15	58.93	2014.1	
30	Consumption	19	24.8	2012.6	Retailing	15	16.00	2012.3	
31	Higher education	19	28.4	2014.9					
32	QCA	19	11.4	2016.9					
33	Social media	19	16.6	2017.1					

Special issue					Regular issue				
Sl.	Theme	OC	AC	APY	Theme	OC	AC	APY	
34	Value (co-creation)	19	67.6	2012.2					
35	Customer equity	18	38.9	2014.4					
36	Globalization	18	28.6	2012.6					
37	Motivation	18	29.9	2013.4					
38	Identity	17	28.1	2013.7					
39	Scale development	17	72.1	2012.1					
40	Service innovation	17	38.7	2015.5					
41	Competition	16	16.1	2010.4					
42	Dynamic capabilities	16	46.3	2015.3					
43	Knowledge management	16	25.5	2015.1					
44	Servitization	16	6.5	2018.4					
45	Absorptive capacity	15	22.7	2015.9					
46	Brand image	15	31.1	2012.9					
47	Decision making	15	17.1	2010.6					
48	Emotions	15	81.3	2010.8					
49	Networks	15	13.5	2012.4					
50	Organizational performance	15	31.1	2015.2					
51	Pricing	15	17.1	2012.6					
52	Purchase intention	15	69.9	2013.4					
53	Relationship marketing	15	54.4	2009.5					
54	Structural equation modeling	15	64.5	2013.2					
55	Virtual reality	15	10.6	2016.7					

Notes: This table lists the prolific themes covered in *JBR*'s special versus regular issues. Here, OC = Occurrences, AC = Average citations, and APY = Average publications per year.

Appendix B

Table B1. Definitions of the descriptive variables

Variable	Definition
Total publications (TP)	The variable shows the academic contributions of the contributing author(s), and/or their affiliation(s). It is measured as the total number of publications in any given year of <i>JBR</i> , the number of publications accredited to a <i>JBR</i> author or an author's affiliation.
Total cited publications (TCP)	This variable measures the number of <i>JBR</i> research found impactful i.e. cited at least once in Web of Science.
Total citations (TC)	As an indicator of the aura of academic influence, the variable is defined as the sum of total citations accredited to <i>JBR</i> articles, its authors, and (or) their affiliations.
Citations per publication (C/P)	The variable indicates the average citations to <i>JBR</i> articles, measured as the ratio between total citations and total publications.
Citations per cited publication (C/CP)	The variable is an indicator of the average number of citations to the cited articles in <i>JBR</i> .
h-index	As a popular indicator of academic influence, the variables shows the 'h' number of articles cited at least 'h' number of times.
g-index	Indicating academic impact, the variable shows the 'g' number of highly cited articles receiving at least 'g ² ' citations.
Number of active years (NAY)	Indicating publishing activity, the variable shows the number of years <i>JBR</i> , its author, and (or) their affiliations are found active by publishing at least one article in any given year.
Productivity per active year (PAY)	As a measure of academic productivity, the variable is measured as the ratio between total publications and NAY.
Number of contributing authors (NCA)	As an indicator of academic quality, this variable is measured as the total number of author(s) contributing to the <i>JBR</i> article(s).
Number of affiliated authors (NAA)	Excluding author(s)' repetitions, this variable highlights the head counts of authors who have published in <i>JBR</i> .
Cumulative number of affiliated authors (CNAA)	It is the cumulative count of NAA.
Growth in authorship (GA)	The variable highlights the yearly growth in the number of unique authors contributing to <i>JBR</i> . It is calculated as: $CNAA_{(y)} - CNAA_{(y-1)}$.
Authors of single-authored articles (ASA)	The variable measures the total number of authors who have contributed single-authored documents to <i>JBR</i> .
Authors of co-authored articles (ACA)	The variable measures the total number of authors who have contributed multi-authored documents to <i>JBR</i> .
Single-authored articles (SA)	The variable shows the number of sole-authored <i>JBR</i> articles.
Co-authored articles (CA)	The variable highlights the number of multi-authored <i>JBR</i> articles.
Collaboration index (CI)	The index shows the number of authors a lead <i>JBR</i> author associates/collaborates to contribute a work of research. It is measured as: $\frac{NCA}{TP} - 1$.
Annual collaboration index (ACI)	The variable shows the annual collaboration index in <i>JBR</i> .
Number of author affiliating countries (NAAC)	As an indicator of the global spread of <i>JBR</i> , the variable shows the total number of countries to which <i>JBR</i> authors have affiliations.

Variable	Definition
Average publication year (APY)	The variable highlights the average publication year of a topic in <i>JBR</i> . For example, if a theme, say “innovation”, appears in 2016, 2017, 2018, 2019, and 2020; the APY for the theme is 2018 (i.e. $\frac{2016+2017+2018+2019+2020}{5} = \frac{10090}{5} = 2018$) which means the topic is recent and trending in the journal.

Note: This table defines the descriptive variables of the study.