# A review of forensic science peer-reviewed primary literature: a guide for students and professionals

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Abstract: The paper reviews fifty-three forensic science peer-reviewed journals based on several factors including cost to publish, cost to access, impact factor, indexing, frequency of publication, acceptance rate, affiliation, publisher, content, geography, and years of circulation. Journals considered to be predatory were not considered. The findings of this review indicate that costs can be problematic for those seeking access, in addition to a lack of information that may make it uncertain which journals are best to access depending on need. Furthermore, many forensic specialties are underrepresented across forensic science journals. Many of the journals identified for this review originated in North America and Europe, showing a geographical skew in widely available forensic information. Forensic professionals, students, and others associated with the field must consider the interrelationship between these various factors and their relative significance to better understand the lack of access to published research.

**Keywords:** forensic science primary literature, access, forensic science education

#### Introduction

The accessibility of forensic science primary literature is an ongoing concern in the discipline, as the published research is often not easily accessible to those who might benefit most from it. Groups of interest include but are not limited to forensic professionals both within and independent from laboratories, students, and educational institutions. Various factors can influence the general availability of a journal, with barriers both financial and otherwise. The intersection of these barriers is reviewed and described in the context of costs to publish and access, impact factor, indexing, frequency of publication, acceptance rate, affiliation, publisher, content, geography, and age across fifty-three selected journals (TABLE 1). Some journals are not forensic science specific journals per se but rather have a history of publications with a forensic science application (i.e. Croatian Medical Journal, PLOS ONE, The Microscope). Emails were sent to publishers and editors in an attempt to ascertain information with varying degrees of response and disclosure.

**TABLE 1** List of surveyed journals with publisher.

Academic Forensic Pathology (SAGE)
American Journal of Forensic Pathology and
Medicine (Wolterskluwer)
Arab Journal of Forensic Sciences and Forensic Medicine (Naif Arab University)
Association for Crime Scene Reconstruction Journal: The Scene (Association for Crime Scene Reconstruction)
Australian Journal of Forensic Sciences (Taylor and Francis)
Brazilian Journal of Forensic Sciences, Medical Law, and Bioethics (Instituto Paulista de Estudos Bioéticos e Jurídicos)
Canadian Society of Forensic Science Journal (Taylor and Francis)
Croatian Medical Journal (DNA only) (Medicinska Naklada)
Drug Testing and Analysis (Wiley)
Egyptian Journal of Forensic Sciences (Springer Open)
Environmental Forensics (Taylor and Francis)
Forensic Chemistry (Elsevier)
Forensic Genomics (Mary Ann Liebert)
Forensic Imaging (Elsevier)
Forensic Science International (Elsevier)
Forensic Science International: Animals and Environments (Elsevier)

Forensic

Science

International: Digital

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Investigation (Elsevier)
Forensic Science International: Genetics (Elsevier)
Forensic Science International: Genetics Supplement Series (Elsevier)
Forensic Science International: Mind and Law (Elsevier)
Forensic Science International: Reports (Elsevier)
Forensic Science International: Synergy (Elsevier)
Forensic Science Journal (Department of Forensic Science Central Police University, Taiwan)
Forensic Sciences Research (Taylor and Francis)
Forensic Science Review (Central Police University Press)
Forensic Science, Medicine and Pathology (Springer)
Forensic Sciences (MDPI)
Forensic Toxicology (Springer)
International Journal of Legal Medicine (Springer)
Journal of American Society of Questioned Document Examiners (American Society of Questioned Document Examiners)
Journal of American Society of Trace Evidence Examiners (American Society of Trace Evidence Examiners)
Journal of Analytical Toxicology (Oxford)
Journal of Bloodstain Pattern Analysis (International Association of Bloodstain Pattern Analysts)
Journal of Firearms and Tool Mark Examiners (Association of Firearms and Toolmark Examiners)
Journal of Forensic and Legal Medicine (Elsevier)
Journal of Forensic Document Examination (Association of Forensic Document Examiners)
Journal of Forensic Identification (International Association for Identification) Journal of Forensic Nursing (Wolterskluwer)
Journal of Forensic Science Education (Texas Digital Library)
Journal of Forensic Sciences (Wiley)
Journal of the National Academy of Forensic
Engineers (National Academy of Forensic Engineers)
Legal Medicine (Elsevier)
Malaysian Journal of Forensic Science
(Universiti Sains Malaysia, Kubang Kerian)
Medicine, Science and the Law (SAGE)
Migrogram Journal (Drug Enforcement

1	Agency	(defunct)			
]	PLOS (	ONE (DNA o	nly) (L	ibrary o	f Science)
		ns of Foren of the Institute			_
		an Journal sweb.com)	of	Legal	Medicine
_		avian Journ de Gruyter)	al of	Forensi	c Science
	Science	and Justice	Elsevie	er)	
,	Spanish	Journal of L	egal M	edicine	(Elsevier)
-	The :	Microscope	(McC	Crone	Research
]	Institute	e)			
,	WIREs	Forensic Sci	ence (V	Viley)	

Cost is a primary concern for many interested parties when it comes to considering journal access and submission. When publishing an article, the cost to the submitting author is not necessarily clear or easy to locate. However, the cost is typically a direct result of author's choice for their article to be open access, or if the journal itself is a completely open access journal. The responsibility for paying for open access or other publication fees lies with the author and/or their research funder. If authors do not wish to pay these publication fees or have the resources to do so, they can also go the route of having the subscribers pay for access to the articles. This leads to considering how much the subscriber would have to pay in order to access these published works. The cost to access published articles can be a frustrating process for potential readers when articles have not been made Open Access by their authors and may prove unaffordable for interested parties with fewer monetary resources.

Journals that do not offer open access or are hybrid often require a fee for access to a journal article. Access is typically cost per article and is often time limited.

Frequently discussed in the realm of academic publishing is a journal's impact factor. The concept of an impact factor (IF) was first developed in the 1950s by Dr. Eugene Garfield and Irving H Sher (1). The metric they created, also known as journal impact factor (JIF), involves determining the number of citations articles published within the last two years received, and dividing it by the total number of articles published in the journal during those two years. By creating such a metric, Dr. Garfield wanted to assist the scientific community in better comparing journals, as simply relying on how many articles a journal publishes per year might cause smaller journals to be overlooked or perceived as less important.

Microgram Journal (Drug Enforcement

Impact factors are published by Clarivate in their Journal Citation Reports (JCR). Unfortunately, this is a paid service, so official impact factors are inaccessible for anyone who has not paid the fee. Since accessibility is a central concept of this paper, it will be more appropriate to use an open access alternative to the impact factor. Some journals disclose an impact factor on their website. Alternatively, impact factors are freely reported by Resurchify and are generated based on the yearly average number of citations to recent articles published in that journal. Rescuchify uses Scopus as its source database (2).

A crucial issue in considering journal accessibility is indexing, defined as a group of items pulled together with a purpose. In the context of journals, this refers to a system of organization by subject, discipline, or type of publication in a database for reader access. For a journal to be indexed, it must generally be vetted to be included in that particular database (3). Thus, it is the general consideration that journals which are indexed frequently in reputable places are also reputable themselves. That is to say that indexed journals are considered of higher quality than journals that are not indexed, regardless of any other factors which may qualify the journal as one of value (4). Selecting where a journal is indexed will influence the overall accessibility of a journal, meaning that wherever it is databased will affect who may have access to that journal or the articles within.

Another factor which may be considered when submitting to a scientific journal is the acceptance rate. This value corresponds to the number of publications by a journal versus their total volume of submissions. This figure provides insight as to journal's selectivity and may influence interested authors who are seeking to publish. The acceptance rate for a journal may be reported on a journal's website, but in some cases the editor-in-chief must be directly contacted to request the most accurate value. Journals may not always be willing to disclose this information or may not be able to. Comparison of acceptance rates among forensic journals is essentially idle and additional elements must be taken into account such as the scope and size of the journal as well as the time frame from which the rate was concluded. The acceptance rate for a journal with a high volume of submissions and broad scope cannot be directly compared to one reported by a discipline specific, low volume journal. Therefore, evaluation of these rates must be cautiously approached with these considerations in mind.

The publication frequency refers to the schedule upon which a journal publishes, whether that be annually, monthly, or otherwise. This can vary from journal to journal, based on their own procedures. The amount of publications output in a year and the rate at which they are distributed can affect the total visibility of the journal. This may result in a lack of accessibility if the volume of their publications is not such that they achieve high

metrics in citation and thus impact factor. Furthermore, those journals which publish more often may only cover specific topics not applicable to all parties of interest within the field.

The publisher of a journal may also affect the relative accessibility of research to the forensic audience at large. The notoriety or size of the publisher may become particularly salient when the journal is known for its prevalence with scientific publishing, thus affecting the perceived value of all journals associated with it. Accessibility must also be considered in light of the affiliation of the journal, given that the journal has organizational ties. Just as prestige exists with wellestablished publishers, so does it exist with notable organizations in the field such as national and international academies of forensic scientists. Membership to these organizations may provide access to content that is otherwise unattainable to the forensic community at large.

In any science, existing knowledge and techniques must be presented to peers within the field, identifying gaps which need to be addressed. One way for the forensic science community to access these developments is to access different forensic science related journals with various content coverage (5). Within the broader field of forensics, however, lies many subdisciplines with specific needs, and the content that is suitable and relevant to a forensic drug chemist may be of little practical value to an entomologist. Broad accessibility of contemporary forensic research within these journals is advantageous for the evolution of the field. It is also important for each discipline within the field to have that same amount of access, and therefore would require a proportionate number of publications per discipline.

Ideally, the content throughout forensic science journals should be of high quality and equally representative of the reported scope of the journal. The quality of content is essential as there is a potential to use such information as supporting evidence in court (5). The article content, however, is driven by the need for research and interest in certain disciplines. In this study, the content per discipline is evaluated and compared to the scope of the journal in which it was published in. This evaluation exposes the gaps within published research of certain disciplines of forensic science as well as the trends observed throughout the fifty-three journals reviewed. Additionally, the comparison of publications in 2018 versus 2021 will also display trends and shifts within the focus of forensic science research.

Forensic science journals are produced and published all over the world. Establishing where journals have been published allows scientists to learn about how different countries and continents are performing forensic science research. The authors of this review conjectured that geography may affect the retrieval of articles due to the presence of localized databases, affiliations, and resources

respective to overseas publications. Digital access alleviates some of this concern in that interested parties can theoretically gain information from articles outside of their continent of residence with ease. The reality, however, may involve unforeseen barriers that can skew the relative accessibility of literature in the field to different parties globally.

The year that each journal published its first volume was determined for all fifty-three journals included in this review. Forensic science as a discipline has existed for some time, but has changed drastically since the first journal was published. The focus has shifted primarily from law to science, as the origin of the term forensics itself has its roots in the term forum, the equivalent of a modern court in ancient Rome (6). Speaking explicitly on age and accessibility, some journals were found to not have online archives for their older publications. For example, the earliest volume of Forensic Toxicology readily available online is Volume 24, published in 2006 (7). However, The International Journal of Legal Medicine has all 136 volumes available from 1922 to 2022 (8). The transition from traditional print publishing to online journal archives may, then, have resulted in the loss of some publications from public view.

#### Methods

The majority of the information described in this review was obtained directly from the websites of the journals included. The acceptance rates of the journals were obtained by emailing the editors and asking them directly for the information. For those who responded (thirteen were willing to share information by email), editors would self-report the number based on the number of submissions the journal receives versus the number accepted for publication within the same time period. For the content section, categories of content were assigned to articles from 2018 and 2021 for each journal and compared to the general topics reported in the scope of the journal. Each article was placed into its respective category based on examination of the titles and abstracts. Impact factors were retrieved the journal website if reported. If not reported, impact factors were retrieved from Resurchify if available. For indexing, categories were defined as high indexed, moderate indexed, low indexed, or not indexed. Those considered high indexed were found in seven or more databases while journals within the moderate indexed category were found in four to six. Any found in one to three databases were classified as low indexed. Journals were placed in the not indexed category if an index or abstracting service could not be identified.

#### Results and Discussion

Cost to access and publish

The fifty-three journals examined in the study fall into one of four categories: hybrid, open access with publication fees, open access without publication fees, and non-open access. Many journals are considered hybrid, which means that articles can be accessed either through open access (paid by the author) or are available through subscription or "pay per article or issue" by the reader (TABLE 2a). Hybrid journals do not require publication fees from authors if they cannot or are unwilling to pay the open access fee. Open access fees range in the thousands of dollars with Drug Analysis and Testing having the highest fess at \$4,700 USD (9). Access per issue or article is sometimes time limited. Articles are always freely available from open access journals but authors typically are required to pay for what amounts to a publication fee (TABLE 2b). Some open access journals do not require open access or publication fees from authors (TABLE 2c). Typically, these journals are not affiliated with any major publishing company. Nonopen access journals require either a subscription and or offer access through pay for article or issue (TABLE 2d). Journals that are discipline-specific (e.g. bloodstain patterns, document examination) typically are found in the latter two categories.

**TABLE 2a** Hybrid journals (monetary values are USD).

Journal	Cost to Access	Cost for Open Access
American Journal of Forensic Pathology and Medicine	\$47/article purchase	\$2445-3010
Australian Journal of Forensic Sciences	\$55/48 hour access; \$184 issue/30 days access	\$3400
Canadian Society of Forensic Science Journal	\$55/48 hour access; \$89 issue/30 day access	\$3085
Drug Testing and Analysis	\$15/48 hour access; \$25/unlimited access	\$4700
Environmental Forensics	\$55/48 hour access	\$3400
Forensic Chemistry	\$25/95/article purchase	\$3430
Forensic Genomics	\$51/24 hour access	\$3600
Forensic Imaging	\$24.95/48 hour access	\$2500
Forensic Science International	\$37.95/article purchase	\$3710
Forensic Science International: Digital Investigation	\$24/95/article purchase	\$2750
Forensic Science International: Genetics	\$24.95/24 hour access	\$4530
Forensic Science, Medicine and Pathology	\$39.95/article purchase	\$4190

Forensic Toxicology \$39.95/article \$4190 purchase	
International Journal \$39.95/article \$4190	
of Legal Medicine purchase	
Journal of Analytical \$40/24 hour access \$4416	
Toxicology	
Journal of Forensic \$27.95/article \$3540	
and Legal Medicine purchase	
<b>Journal of Forensic</b> \$47/article purchase \$2545-3010	
Nursing	
<b>Journal of Forensic</b> \$12/48 hour access, \$4000	
Sciences \$48/article purchase	
<b>Legal Medicine</b> \$24.95/article \$3000 purchase	
Science and Justice \$27.95/48 hour \$3610 access per article	
<b>Spanish Journal of</b> \$24.95/48 hour \$700-2100	
Legal Medicine access	

**TABLE 2b** Open access journals with publication fees (monetary values are USD except for RJLM).

Journal	Publication Fee
Forensic Science	\$1700
International:	\$1700
Animals and	
Environments	
Forensic Science	\$3090
International:	\$3090
Genetics	
Supplement Series	¢1700
Forensic Science	\$1700
International: Mind	
and Law	A 5 5 0
Forensic Science	\$650
International:	
Reports	*
Forensic Science	\$1700
International:	
Synergy	
Forensic Sciences	\$1500
Research	
Forensic Sciences	\$2068
PLOS ONE (DNA	\$800-1805
only)	
Romanian Journal of	\$300 Euros
Legal Medicine	
(RJLM)	
WIREs Forensic	\$4300
Science	

**TABLE 2c** Open access journals without publication fee.

Forensic Engineers
Malaysian Journal of Forensic Science
Microgram Journal (defunct)
<b>Problems of Forensic Science</b>
Scandinavian Journal of Forensic Science

TABLE 2d Non-open access journals.

Journal	Cost to Access
Academic Forensic Pathology	\$41/24 hour access
Forensic Science Review	\$30/article student \$60/article individual; \$80/article institution
Journal of American Society of	\$95 yearly subscription (on-line),
<b>Questioned Document Examiners</b>	\$165 (print)
Journal of Firearms and Tool	\$150 annual subscription (on-line
Mark Examiners (AFTE)	of print); \$50/issue
Journal of Forensic Document Examination	Issue purchase \$27.95-60
Journal of Forensic Identification	\$205 yearly subscription
Medicine, Science, and the Law	\$41.50/24 hour access per article; \$285.5/24 hour access for issue
The Microscope	\$66/annual subscription

Impact Factor and Acceptance Rate

Of the fifty-three journals chosen for this paper, impact factors could only be located for twenty-eight of them through self-reporting on journal websites or through Resurchify (TABLE 3). Although the importance of impact factors is often in dispute (10), it is likely that professionals and students seeking information on a topic and more likely to find articles on the subject from journals with high impact factors particularly if looking through reference lists on publications. Acceptance rates and impact factors appear not to be linked thus limiting the determination of quality based on impact factor. Some journals with higher impact factors (e.g. Forensic Chemistry, Forensic Sciences Research, Journal of Analytical Toxicology) (11-13) have higher acceptance rates than some journals with lower impact factors (e.g. Australian Journal of Forensic Science, Canadian Journal of Forensic Science) (14-15). Many journals were unwilling to disclose or did not know their acceptance rates. Some journals factor in author withdrawals or incomplete submissions in the calculation of acceptance rate.

**TABLE 3** Journals ranked by impact factor.

Journal	Impact Factor	Acceptance Rate (%)
Forensic Science	4.88	NR
International: Genetics Forensic Science	3.79	39
Research	3.79	39
PLOS ONE	3.58	NR
Journal of Analytical	3.36	41
Toxicology	3.26	NR
Drug Testing and Analysis	3.20	NK
International Journal of	2.79	NR
Legal Medicine		
Forensic Chemistry	2.67	50 100*
Forensic Science International"	2.67	100
Genetics Supplement		
Series		
Forensic Toxicology	2.54	35
Forensic Science,	2.45	35
Medicine, and Pathology		
Forensic Science	2.39	27
International		
Forensic Science	2.04	NR
International: Synergy		
Legal Medicine	2.02	28
Science and Justice	1.99	30
Journal of Forensic	1.83	NR
Sciences Egyptia Science	1.81	26
Forensic Science International: Digital	1.01	20
Investigation		
Croatian Medical	1.64	NR
Journal	1.61	20
Journal of Forensic and Legal Medicine	1.61	20
Environmental	1.33	NR
Forensics		
Forensic Science	1.31	NR
International: Mind and Law		
Medicine, Science and	1.26	NR
the Law	1.20	
Australian Journal of	1.17	23
Forensic Sciences Forensic Science	1.10	100*
Review	1.10	100*
Forensic Imaging	1.05	NR
Journal of Forensic	0.89	52
Nursing	0.00	NID
Forensic Science International: Reports	0.88	NR
Egyptian Journal of	0.87	NR
Forensic Sciences		
Journal of Forensic	0.45	NR
Identification Canadian Society of	0.40	25
Forensic Science	0.40	23
Journal		
Romanian Journal of	0.26	NR
Legal Medicine	0.24	NID
Academic Forensic Pathology	0.24	NR
Journal of Forensic Document	0.13	NR

Examination						
Journal of Firearms		0.03			NR	
and Toolmark						
Examiners		NID			70	
Scandinavian Journal		NR			70	
of Forensic Science					4.0	
Journal of National		NR			40	
Academy of Forensic						
Engineers						
Spanish Journal of		NR			45	
Legal Medicine						
Journal of American		NR			50	
Society of Questioned						
<b>Document Examiners</b>						
Brazilian Journal of		NR			68	
Forensic Sciences,						
Medical Law, and						
Bioethics						
Problems of Forensic		NR			68	
Science						
Forensic Genomics		NR			70	
Journal of Forensic		NR			94	
Science Education						
The Microscope		NR			90	
Forensic Science		NR			NR	
International:						
Animals and						
Environments						
Forensic Sciences		NR			NR	
Journal of Bloodstain		NR			NR	
Pattern Analysis						
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\*Forensic Science Review and Forensic Science International: Genetics Supplement Series is by invitation to publish

NR=not reported

#### Indexing and Abstracting

Indexing and abstracting in various searchable databases allows for the student and professional to locate articles on a particular subject. The greater the amount of indexing, the greater the likelihood of finding a particular article. Across the fifty-three journals examined for this study, indexing varied widely. For reporting purposes, journals as defined as high indexed, moderate indexed, and low indexed based upon the number of databases indexing articles from each journal. In most cases, indexing and abstracting are listed on each journal's website. For those that are not, the authors attempted to locate articles from these journals in accessible databases (the authors recognize that some journals may be in databases that the authors just did not find). important to note that the indexing classifications do not refer to the quality or relative usage of these databases, only to the number. Additionally, there is a separate category for those journals whose articles are only available on their own exclusive website, a category that seven journals surveyed for this study belong to. As shown in TABLE 4, eleven journals were found to be in the high index category, fourteen belong to the moderate index category, and twenty-one were found to be in the low index category. In total, the data shows that the

majority of the journals are indexed in three or less databases.

Some databases appeared more often than others in the index lists. Among the most common were Chemical Abstracts, Directory of Open Access Journals, EBSCO, EMBASE, Google Scholar, Proquest, Pubmed, Science Citation Index, SciFinder, and Scopus,. Major publishers such as Elsevier, Springer, and Wiley typically have their own search databases for their journals (e.g. Science Direct for Elsevier). In some instances, databases are particular to a particular geographical region (e.g. Canadian Serials Directory provides indexing for the Canadian Society of Forensic Science Journal). Additionally, there is variation within larger journal families, as seen with the Forensic Science International journals (16-23). They are distributed between the moderate and low index categories with the exception of the flagship journal which is listed in the high indexed category.

TABLE 4 Indexing and abstracting of forensic science journals.

### **High Indexed Journals**

Australian Journal of Forensic
Canadian Society of Forensic Science Journal
Forensic Science International
Forensic Science, Medicine and Pathology
Forensic Toxicology
International Journal of Legal Medicine
Journal of Forensic and Legal Medicine
Journal of Forensic Sciences
Legal Medicine
PLOS ONE
Problems of Forensic Science

Problems of Forensic Science			
Moderate Indexed Journals			
American Journal of Forensic Pathology and			
Medicine			
Brazilian Journal of Forensic Sciences,			
Medical Law, and Bioethics			
Drug Testing and Analysis			
Forensic Chemistry			
Forensic Genomics			
Forensic Science International: Genetics			
Forensic Science International: Synergy			
Forensic Science Research			
Forensic Sciences			
Journal of Analytical Toxicology			
Medicine, Science, and the Law			
Scandinavian Journal of Forensic Science			
Science and Justice			
Spanish Journal of Legal Medicine			
Low Indexed Journals			

Egyptian Journal of Forensic Sciences				
Environmental Forensics				
Forensic Imaging				
Forensic Science International: Animals and				
Environments				
Forensic Science International: Digital				
Investigation				
Forensic Science International: Genetics				
Supplement Series				
Forensic Science International: Mind and Law				
Forensic Science International: Reports				
Forensic Science Review				
Journal of Firearms and Tool Mark Examiners				
Journal of Forensic Document Examination				
Journal of Forensic Identification				
Journal of Forensic Nursing				
Journal of Forensic Science Education				
Journal of the National Academy of Forensic				

Microgram Journal

Romanian Journal of Legal Medicine

The Microscope

Engineers

WIREs Forensic Science

#### Not Indexed

Arab Journal of Forensic Sciences and Forensic Medicine

Association for Crime Scene Reconstruction Journal: The Scene

Forensic Science Journal (Taiwan)

Journal of American Society of Ouestioned **Document Examiners** 

Journal of American Society of Trace Evidence Examiners

Journal of Bloodstain Pattern Analysis

Malaysian Journal of Forensic Science

### Publication frequency

Primarily, the journals surveyed are published quarterly. Of the fifty-three journals surveyed, eighteen follow this publication pattern. Ten journals publish six times a year (including Forensic Chemistry which publishes five times per year) (11) and four active journals publish between eight and twelve issues annually (Drug Analysis and Testing and Forensic Science International publish monthly) (9, 16). Twelve journals publish either one issue annually or use a continuous publication model. These are primarily open access journals such as the Journal of American Society of Trace Evidence Examiners, Association of Crime Scene Reconstruction Journal, and PLOS ONE (24-26). There does seem to be some correlation between publication frequency and impact factor. Of the top fifteen highest impact factor journals listed in TABLE 3, eight publish at least five issues annually. Of the other

Croatian Medical Journal

Academic Forensic Pathology

seven journals, two publish four times per year (Forensic Sciences Research and Forensic Science, Medicine, and Pathology) (11, 27), three use a continuous publication model (Forensic Science International: Synergy and PLOS ONE) (18, 26), and one (Forensic Science International: Genetics Supplement Series) publishes by invitation only (21). The only anomaly in this group is Forensic Toxicology which publishes only twice each year (27).

#### Publisher and Affiliation

The publisher of the journals surveyed also affects access. Journals with well-known publishers are likely to be better indexed and typically have their own search engines that are often found in library systems (e.g. Science Direct for Elsevier; SpringerLink, Wiley Online). Of the fifty-three journals examined, thirty-two have major academic publishers. This group includes fourteen from Elsevier, four each from Springer and Taylor and Francis, three from Wiley, and two each from SAGE and Wolterskluwer. Of the twenty-five high and moderate indexed journals listed in TABLE 4, twenty-one have a major publisher. Similarly, major publishers account for fourteen of the fifteen journals with the highest impact factor listed in TABLE 3. The one that does not is PLOS ONE which is published through the Library of Science which is also highly indexed and accessible but differs from the other publishers since it is a non-profit organization (26). The one commonality among journals in this group is that they are either hybrid or open access with a publication fee. Conversely, of the thirteen active open access journals without a publication fee listed in TABLE 2c, twelve do not have a recognized publisher (the one exception is the Egyptian Journal of Forensic Sciences which is a Springer Open journal (28). Although articles in these journals are freely accessible, they tend to be low indexed and show low impact factors.

Journal distribution and access is often associated with professional organization affiliation. Most of the journals in this study are affiliated with a forensic science professional organization (TABLE 5). In some cases, professional organizations offer access for their members to the official journal or publication of the organization. For instance, the American Academy of Forensic Sciences offers access to the Journal of Forensic Sciences to its members (29). Similarly, the International Association for Identification offers access to the Journal of Forensic Identification to its members as does the American Society of Questioned Document Examiners which offers access to members to their journal. At the very least, members of organizations will likely be more aware of the group's official publication leading to increased journal visibility. Unfortunately, this may not be an option for students in academic programs although in some instances, student members of professional forensic science organizations are allowed access to the group's sponsored journal (this is the case with the Chartered Society of Forensic Sciences which serves as the parent organization for *Science and Justice*) (32).

TABLE 5 Journals with forensic science professional affiliation.

Academic Forensic Pathology  American Journal of Forensic Pathology and American Journal of Forensic Pathology and Medicine Arab Society for Sciences and Medicine Association for Crime Scene Reconstruction Journal Australian Journal of Forensic Sciences Association for Crime Scene Reconstruction Journal Australian Journal of Forensic Sciences Brazilian Journal of Forensic Sciences, Medical Law, and Bioethics Canadian Society of Forensic Science Juridicos Canadian Society of Forensic Science Juridicos Environmental Forensic Environmental Forensic Sciences Environmental Forensic Sciences Environmental Forensic Sciences Environmental Forensic Sciences Environmental Forensic Instruto Paulista de Estudos Bioéticos e Jurídicos Canadian Society of Canadian Society of Forensic Science Journal Egyptian Journal of Forensic Sciences Environmental Forensic Sciences Environmental Forensic International Society of Environmental Health and Sciences foundation/ International Society of Environmental Forensic Forensic Chemistry American Society of Crime Lab Directors International Symposium on Human Identification Human Identification International Association of Forensic Radiographers International Association of Forensic International Society of Radiology and Imaging/ International Association of Forensic Forensic Science International: Genetics Genetics Forensic Science International: Genetics Forensic Science International: Genetics International: Genetics Forensic Science International: Genetics International: Genetics Forensic Science International: Genetics International: Genetics International: Genetics International: Genetics Genetics International: Genetics Interna	Pathology  Pathology  American Journal of Forensic Pathology and Medicine Examiners Foundation  National Association of Medical Examiners Arab Journal of Forensic Sciences and Medicine Association for Crime Scene Reconstruction Journal Australian Journal of Forensic Sciences Reconstruction Journal Australian Academy Forensic Sciences Of Forensic Science Instituto Paulista de Estudos Bioéticos e Jurídicos Canadian Society of Forensic Science Journal Forensic Science Journal Egyptian Journal of Forensic Sciences  Environmental Forensic Environmental Forensic Environmental Forensic Sciences  Environmental Forensic  Environmental Forensic Forensic Chemistry American Society of Forensic Genomics  Forensic Genomics International Society of Environmental Forensics Forensic Genomics International Forensic Genomics International Society of Environmental Forensic Forensic Genomics International Society of Environmental Forensics Forensic Genomics International Society of Forensic International Society of Forensic Radiographers International Association of Forensic Radiographers International Forensic Science International Society International Genetics Genetics Genetics Forensic Science International Society International Socie	Journal	Affiliation
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Forensic Science Journal Egyptian Journal of Forensic Sciences  Association of Law and Forensic Sciences  Environmental Forensics  Environmental Forensics  Environmental Forensics  Association for Environmental Health and Sciences foundation/ International Society of Environmental Forensics  Forensic Chemistry  American Society of Crime Lab Directors International Symposium on Human Identification Forensic Imaging  International Society of Radiology and Imaging/ International Association of Forensic Radiographers  Forensic Science International: Genetics Forensic Science International: Genetics Forensic Science International: Genetics Society Forensic Science International: Genetics Supplement Series  Forensic Science International: Genetics Science International: Genetics Science International: Genetics Science International: Genetics Science International: Society Forensic Science International: Society Forensic Science International: Genetics Series  Forensic Science International: Society International: Society International: Society Society Forensic Science International: Society of International: Society of International: Synergy Crime Lab Directors Forensic Science Journal Academy of	Forensic Science Journal Egyptian Journal of Forensic Sciences  Association of Law and Forensic Sciences Environmental Forensics  Environmental Forensics  Environmental Forensics  Association for Environmental Health and Sciences foundation/ International Society of Environmental Forensic Chemistry  American Society of Crime Lab Directors Forensic Genomics  International Symposium on Human Identification Forensic Imaging International Society of Radiology and Imaging/ International Association of Forensic Radiographers Forensic Science International: Genetics Genetics Forensic Science International: Genetics Supplement Series Forensic Science International: Genetics Science International: Genetics Supplement Series Forensic Science International: Genetics Science International: Genetics Supplement Series Forensic Science International: Genetics Science International: Genetics Supplement Series Forensic Science International: Genetics Science International: Genetics Science International: Genetics Science International: Orensic Science International Orensic Science Internation		
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Identification  Journal of Forensic Nurses  Journal of Forensic Science Education Journal of Forensic Sciences  Journal of National Academy of Forensic Engineers Legal Medicine  Medicine, Science, and the Law Malaysian Journal of Forensic Science Microgram Journal  Problems of Forensic Science Romanian Journal of Legal Medicine  Scandinavian Journal of Legal Medicine  Science and Justice	International Association for Identification International Association of Forensic Nurses Council of Forensic Science Educators American Academy of Forensic Sciences National Academy of Forensic Sciences Iapanese Society of Legal Medicine British Academy for Forensic Sciences Forensic Sciences Forensic Science Society of Malaysia Drug Enforcement Administration Institute of Forensic Expertise Romanian Society of Legal Medicine Danish, Norwegian, and the Swedish Societies for Forensic Medicine Chartered Society of Forensic Sciences National Association of Forensic
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#### Content

The authors examined subject matter of papers published in the surveyed journal in two years: 2018 (prepandemic) and 2021 (post-pandemic). In these two years, 6,115 forensic science-themed articles were published in the fifty-three journals. The content of some articles could be classified into one or more subject areas creating a dataset of seven thousand three hundred and fifty articles. The forensic science disciplines most prevalent during these two years include forensic biology, forensic chemistry and environmental forensics, forensic pathology, medicine, and nursing, and toxicology. All four of these areas showed percentages above 8% for both years. The amount of papers in both years appears to be balanced for most disciplines with only questioned document examination and wildlife forensics underrepresented (TABLE 6).

**TABLE 6** Percent articles published according to forensic science discipline in 2018 and 2021.

Discipline	2018	2021
Crime Scene	4.4	4.5
Investigation		
Digital Forensics	5.3	4.8
Forensic Anthropology	5.8	7.0
Forensic Biology	9/5	9.1
Forensic Chemistry and	8.3	8.4
Environmental		
Forensics		
Forensic Science	7.6	5.1
Administration and		
Education		
Forensic Engineering	1.9	3.3
Forensic Entomology	4.7	4.0
Forensic Odontology	4.7	6.1
Forensic Pathology,	9.9	9.2
Medicine, and		
Nursing		
Jurisprudence	5.9	5.5
Pattern Analysis	6.5	6.3
Forensic Psychology	6.5	6.3
<b>Questioned Document</b>	2.7	3.9
Examination		
Toxicology	8.4	8.8
Trace Evidence	6.5	6/6
Wildlife Forensics	1.4	2.0

Of the fifty forensic journals in this study (excluding PLOS ONE, Croatian Medical Journal, and The Microscope which are not by definition forensic journals), fourteen have forensic pathology as the main focus (Academic Forensic Pathology; American Journal of Forensic Pathology and Medicine; Arab Journal of Forensic Sciences and Medicine; Brazilian Journal of Forensic Sciences, Medical Law, and Bioethics; Egyptian Journal of Forensic Science; Forensic Imaging; Forensic Science, Medicine, and Pathology; International Journal of Legal Medicine; Journal of

Forensic and Legal Medicine; Legal Medicine; Medicine, Science, and the Law; Romanian Journal of Legal Medicine; Scandinavian Journal of Forensic Science; Spanish Journal of Legal Medicine) (8, 27-28, Although papers dealing with forensic pathology and medicine primarily are found in these journals, papers from other disciplines that have death investigation as a focus can be found in these journals (e.g. anthropology, forensic biology, odontology, psychology, and toxicology). Of the other thirty-six journals, twenty-one are discipline specific, two focus on review articles of topical interest (Forensic Science Review, WIREs Forensic Science) (44-45), and twelve are classified as wide-scope covering a wide-range of forensic science topics (TABLE 7). Finally, Forensic Science International: Synergy encompasses a unique space since it offers an interdisciplinary approach to research and forensic science policy and management

**TABLE 7** Wide-scope forensic science journals.

Australian Journal of Forensic Sciences					
		Society	of	Forensic	Science
Jo	urnal				
Fo	orensic Sc	cience Inte	ernati	ional	
Fo	orensic Sc	cience Inte	rnati	ional: Repo	rts
Fo	rensic So	cience Jou	rnal		
Fo	orensic Sc	cience Rep	orts		
Fo	orensic Sc	ciences			
Jo	urnal of I	Forensic I	denti	fication	
Jo	urnal of I	Forensic S	cien	ces	
M	alaysian	Journal of	Fore	ensic Scien	ce
Pr	oblems o	f Forensic	Scie	ence	
Sc	ience and	d Justice			

## Geography and Age

The journals comprising the master list of fifty-three journals come from six continents: Africa, Oceania, and South America contain the Egyptian Journal of Forensic Sciences, Australian Journal of Forensic Sciences, and the Brazilian Journal of Forensic Sciences, Medical Law, and Bioethics respectively (14, 28, 36). Asia contains six journals including the Arab Journal of Forensic Sciences and Forensic Medicine, Forensic Science Journal, Forensic Science Review, Forensic Toxicology, Legal Medicine, and the Malaysian Journal of Forensic Science (7, 34, 39, 44, 46, 47). The remaining forty-three journals are published in either North America or Europe. Of these forty-three journals some have a more explicit geographical focus such as American Journal of Forensic Pathology and Medicine (United States); Canadian Society of Forensic Science Journal; Medicine, Science, and the Law (Great Britain); Problems of Forensic Science (Poland); Romanian Journal of Legal Medicine; and the Scandinavian Journal of Forensic Science (15, 34, 40, 41, 42, 48). Conversely, others claim a more international focus (Forensic Science International, International Journal of Legal Medicine, Journal of Forensic Identification) (8, 16, 30). Although the Journal of Forensic Sciences is the official publication of the American Academy of Forensic Sciences its authorship is clearly international (29).

The earliest published journal on the list published its first issue in 1922 (International Journal of Legal Medicine) (8) and the last journal to begin publishing was in 2021 (Forensic Sciences, Forensic Genomics) (49, 50). Of the fifty-three journals surveyed, more than one-quarter of them began publishing in the 2000's clearly demonstrating the increased interest in forensic science over the last few decades. Most of these journals have a discipline-specific focus (such as the Journal of the American Society of Trace Evidence Examiners in 2010) (24) which as a trend started in the 1970's with the creation of such journals as the Journal of Analytical Toxicology, and the Journal of Forensic Document Examination during this period (13, 51).

#### Conclusion

Nearly half of the journals surveys in this study are freely accessible to students and practitioners. (24 of 53). However, since most of these journals are poorly indexed (only seven are defined as having moderate to high indexing including PLOS ONE which is not a forensic science journal), it may be difficult to locate papers from these journals unless those interested search directly on the journal website. In addition, nineteen of these journals have impact factors that are unknown or are below 1.00, meaning that their work is not being cited by other authors to any appreciable degree. This is not to presume that papers in these journals have diminished quality considering that all of them undergo the peer review process prior to publication. It is simply a question of dissemination. It is likely that most articles will be retrieved through mostly hybrid journals since these journals are better indexed and are more easily found. Access to these journals however requires an agency or school subscription. Without a subscription, costs for individual papers or articles can be high with some requiring more that \$50 USD for limited time Agencies/schools with comprehensive subscription to major publishers may also find that these subscriptions are often limited to certain journals and articles thus requiring fee to access for parts of their journal and article inventory.

Simple knowledge of the existence of journals likely plays a role in the dissemination of articles. Journals that are newer or not associated with a major publisher always run the risk of "flying under the radar." Without a major publisher, journals may not be widely indexed.

Even long standing freely accessed journals may not find their into reference lists in papers and textbooks if they are not suitably indexed. Unless costs are paid by the author for open access, it thus appears that the availability of many articles sought by students and practitioners will incur cost to the person or agency.

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