*Table 1 Categorization of Studies by Scientific Domain*

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| --- | --- | --- |
| Scientific Domain | Description | Related Studies (Study\_IDs) |
| Computer & Information Sciences | This domain covers research where novel software solutions are developed or applied to address challenges in computing, data management, and information systems. The bibliometric analysis identifies trends in emerging tools, frameworks, and platforms that support decision-making and innovation in digital environments | S1, S3, S5, S6, S9, S10, S11, S12, S13, S14, S16, S17, S18, S19, S21, S23, S24, S26, S27, S28, S29, S30, S31, S32, S33, S35, S36, S37, S38, S39, S42, S44, S45, S47, S49, S50, S51, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S70, S71, S73, S74, S75, S77, S78, S82, S83, S85, S86, S87, S89, S91, S96, S97, S98, S99, S100, S102, S103, S104, S105, S106, S108, S109, S110, … (+1456 more) |
| Engineering & Technology | Includes studies that propose or employ innovative software to solve engineering problems and advance technological processes. Bibliometric insights highlight the growth of software tools in areas such as simulation, design automation, and smart manufacturing. These works often address efficiency, accuracy, and integration challenges in engineering workflows. | S4, S9, S12, S14, S16, S17, S20, S21, S25, S26, S27, S29, S32, S34, S37, S40, S44, S46, S54, S55, S56, S58, S61, S65, S68, S78, S80, S85, S86, S87, S88, S92, S94, S96, S98, S101, S102, S107, S115, S118, S119, S121, S123, S125, S134, S135, S138, S140, S141, S144, S150, S155, S159, S167, S168, S182, S183, S184, S185, S186, S194, S195, S197, S199, S203, S206, S209, S210, S217, S221, S223, S226, S230, S233, S247, S253, S257, S264, S270, S271, … (+538 more) |
| Environmental & Agricultural Sciences | Encompasses research that applies specialized software for modeling, monitoring, and managing environmental and agricultural systems. The bibliometric analysis reveals the increasing use of digital tools for sustainability assessment, crop optimization, and environmental impact analysis. Many solutions aim to enhance data-driven policy-making and resource management. | S17, S21, S22, S30, S34, S36, S37, S38, S42, S46, S70, S93, S96, S107, S116, S121, S125, S129, S132, S148, S155, S167, S182, S194, S195, S199, S202, S203, S206, S216, S217, S226, S247, S259, S262, S269, S270, S271, S275, S284, S292, S296, S300, S301, S328, S353, S355, S366, S371, S396, S397, S398, S416, S428, S430, S434, S436, S448, S458, S463, S464, S467, S471, S473, S477, S479, S492, S493, S502, S504, S521, S529, S534, S543, S548, S553, S564, S567, S572, S588, … (+181 more) |
| Humanities & Arts | Covers studies that employ novel software to support research in literature, history, linguistics, visual arts, and cultural heritage. The bibliometric analysis reveals increasing use of digital humanities tools for text analysis, archival digitization, and multimedia content curation. These innovations often aim to enhance accessibility, preservation, and interdisciplinary collaboration. | S17, S21, S24, S65, S66, S96, S119, S121, S127, S155, S159, S167, S193, S194, S197, S199, S203, S206, S217, S234, S247, S270, S284, S328, S332, S366, S371, S428, S431, S436, S463, S464, S471, S477, S488, S504, S520, S540, S541, S543, S552, S592, S594, S595, S600, S614, S619, S663, S672, S685, S689, S711, S726, S745, S757, S788, S799, S826, S841, S868, S876, S882, S895, S925, S929, S932, S953, S954, S957, S967, S975, S992, S995, S1002, S1021, S1023, S1039, S1085, S1115, S1149, … (+61 more) |
| Life Sciences | Consists of studies using novel software to explore biological systems, medical diagnostics, and health informatics. Bibliometric patterns show strong growth in bioinformatics platforms, computational modeling of diseases, and clinical decision-support systems. These tools often improve data interpretation, predictive accuracy, and treatment planning. | S2, S15, S17, S21, S25, S28, S34, S36, S38, S42, S43, S48, S53, S54, S62, S63, S64, S65, S69, S71, S72, S77, S79, S80, S83, S84, S85, S87, S90, S93, S96, S101, S104, S111, S112, S119, S121, S122, S126, S129, S132, S133, S139, S141, S142, S145, S152, S155, S159, S161, S162, S164, S165, S167, S172, S173, S175, S177, S179, S181, S182, S185, S191, S192, S194, S197, S199, S200, S201, S202, S203, S205, S206, S214, S217, S222, S228, S229, S230, S236, … (+588 more) |
| Mathematics & Statistics | Covers the development and application of computational tools for mathematical modeling, statistical analysis, and algorithmic problem-solving. The bibliometric analysis highlights innovations in statistical software, symbolic computation systems, and optimization frameworks. Such tools enable complex data analysis and support quantitative research across disciplines. | S1, S3, S5, S13, S17, S21, S23, S28, S32, S33, S57, S59, S65, S73, S77, S82, S85, S86, S87, S94, S96, S97, S100, S105, S108, S109, S110, S117, S120, S121, S124, S130, S131, S136, S137, S151, S155, S159, S160, S165, S167, S170, S171, S178, S179, S182, S190, S193, S194, S197, S199, S201, S203, S206, S207, S213, S214, S217, S225, S231, S240, S242, S245, S247, S250, S251, S256, S259, S262, S270, S276, S281, S284, S287, S288, S302, S309, S312, S315, S323, … (+403 more) |
| Other | Studies mapped to the Other domain. | S6, S11, S21, S24, S30, S40, S45, S60, S66, S74, S83, S91, S96, S102, S106, S111, S136, S148, S157, S165, S193, S194, S196, S197, S198, S201, S203, S217, S258, S268, S280, S283, S296, S301, S313, S318, S335, S352, S355, S356, S361, S366, S376, S381, S410, S414, S448, S460, S463, S471, S478, S488, S489, S494, S504, S515, S516, S533, S537, S540, S541, S553, S567, S569, S571, S575, S582, S583, S586, S591, S594, S623, S647, S663, S668, S685, S703, S704, S708, S711, … (+121 more) |
| Physical Sciences | Includes studies where advanced software is used to model physical processes in fields like physics, chemistry, and material science. Bibliometric trends indicate increasing reliance on simulation platforms, computational chemistry tools, and experimental data analysis software. These innovations improve the precision and reproducibility of scientific investigations. | S2, S4, S7, S8, S17, S18, S20, S21, S22, S31, S35, S39, S41, S47, S51, S52, S54, S65, S72, S76, S81, S85, S87, S88, S92, S94, S95, S96, S111, S119, S121, S123, S128, S140, S145, S149, S153, S154, S155, S156, S158, S159, S161, S163, S167, S169, S174, S176, S182, S189, S194, S197, S199, S201, S203, S204, S206, S208, S212, S214, S217, S224, S225, S227, S230, S237, S238, S246, S247, S248, S249, S252, S253, S254, S255, S256, S257, S260, S261, S263, … (+729 more) |
| Social & Behavioral Sciences | Encompasses the use of novel software for analyzing social phenomena, behavioral patterns, and policy impacts. The bibliometric review reveals a rise in tools for survey analysis, text mining, and social network modeling. These applications often aim to support policy evaluation, decision-making, and societal planning. | S17, S21, S24, S28, S30, S37, S50, S65, S66, S71, S87, S96, S121, S127, S147, S148, S155, S159, S167, S185, S187, S194, S197, S199, S203, S206, S217, S247, S270, S271, S282, S284, S318, S325, S356, S366, S371, S410, S428, S431, S436, S463, S464, S471, S477, S488, S494, S495, S504, S514, S516, S533, S540, S541, S543, S565, S567, S571, S574, S592, S594, S595, S600, S616, S619, S646, S663, S672, S675, S685, S689, S704, S710, S711, S726, S732, S733, S734, S745, S748, … (+92 more) |

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