Online Appendix

Sustainable and Climate Finance

Authors	Year	Journal	Title	Sample	Main findings
Panel A. Inside the firm					
Ardia, D., Bluteau, K., Boudt, K., & Inghelbrecht, K.	2022	Management Science	Climate Change Concerns and the Performance of Green vs	S&P 500 companies from January 2010 to June 2018	Green firm's stock prices tend to increase when climate concerns increase, whereas brown firms' prices decrease. When concerns about climate change increase, lawmakers are more likely to implement legislation that would harm brown firms relative to green firms
Aswani, J., Raghunandan, A., & Rajgopal, S.	2023	Review of Finance	Are carbon emissions associated with stock returns? In Review of Finance	2,669 unique U.S. firms from 2005 - 2019	Stock returns are correlated only with unscaled emissions estimated by the data vendor, but not with the unscaled emissions that are disclosed by firms
Attig, N., El Ghoul, S., Guedhami, O., & Suh, J.	2013	Journal of Business Ethics	Corporate Social Responsibility and Credit Ratings	S&P rating sample of 1585 unique firms over the period 1991–2010 (ESG Data Provider: MSCI ESG STATS ESG Proxy)	Positive impact of CSR on credit ratings in terms of both an aggregate ESG score and the scores on the individual components of ESG; Larger firms and firms with greater interest coverage and operating margins have higher CSR scores
Awaysheh, A., Heron, R. A., Perry, T., & Wilson, J. I.	2020	Strategic Management Journal	On the relation between corporate social responsibility and financial performance.	MSCI ESG Stats (KLD STATS), Compustat, period 2003-2013	Best-in-class companies in terms of CSR compliance have higher market valuations comparatively to industry peers (Tobin's Q)
Baker, E. D., Boulton, T. J., Braga-Alves, M. V., & Morey, M. R.	2021	Journal of Corporate Finance	ESG government risk and international IPO underpricing	7,446 IPOs issued in 36 countries between 2008 and 2018.	IPOs in countries with higher ESG government risks experience greater underpricing. This effect is stronger for IPOs that are more exposed to political risk, such as those issued by state-owned enterprises or in industries that are more heavily regulated
Barua, S., & Chiesa, M.	2019	Business Strategy and the Environment	Sustainable financing practices through green bonds: What affects the funding size? In Business Strategy and the Environment (Vol	557 green-labeled bond issuances issued from 2010 to 2017	A large number of factors affect issue size asymmetrically; however, many of the effects do not persist over time and are heterogeneous across rating grades
Berrone, P., Fosfuri, A., & Gelabert, L.	2015	Journal of Business Ethics	Does Greenwashing Pay Off? Understanding the Relationship Between Environmental Actions and Environmental Legitimacy	325 publicly traded U.S. firms in polluting industries support the notion that environmental actions help firms gain environmental legitimacy. studied period: 1997–2001	• Environmental actions can overcome information asymmetry in companies' environmental positioning • Environmental board committee, environmental pay policies, or environmental trademark and participation in the WasteWise program decrease the environmental legitimacy • Some environmental actions can increase the company's environmental legitimacy if it has strong credibility, but they can be harmful otherwise, especially if intense NGO scrutiny
Ferrell, A., Liang, H., &	2016	Journal of Financial Economics	Socially responsible firms	25,000 companies from 1999 to 2011. the top 15 hundred companies of the MSCI World Index, the top 25 companies of the MSCI	• Higher CSR performance is closely related to tighter cash constraints and higher pay-for-performance sensitivity • CSR is positively related to the legal protection of

Renneboog, L.				Emerging Markets Index, the top 275 companies by market capitalization of the FTSE 100 and the FTSE 250	shareholder rights and negatively related to controlling shareholders' expropriation of minority shareholders
Flammer, C.	2021	Journal of Financial Economics	Corporate green bonds	Corporate green bonds from Bloomberg's fixed-income database	The ownership of green bonds increases by 2.9% and attracts new investors sensitive to environmental issues
Gillan, S. L., Koch, A., & Starks, L. T.	2021	Journal of Corporate Finance	Firms and social responsibility: A review of ESG and CSR research in corporate finance	Review of existing research on ESG and CSR in corporate finance	• Firms' ESG/CSR profiles are related to their market, leadership, and ownership characteristics. • Firms ESG/CSR profiles are associated with firm risk, performance and value
Humphrey, J. E., Lee, D. D., & Shen, Y.	2012	Journal of Corporate Finance	Does it cost to be sustainable? In Journal of Corporate Finance (Vol	Sample of 1,434 firms from 34 countries in various industries between 2002 and 2006	No difference in the risk-adjusted performance of UK firms with high and low CSP ratings
Husted, B. W., Jamali, D., & Saffar, W.	2016	Strategic Management Journal	Near and dear? The role of location in CSR engagement	Compustat North America, U.S. Census Bureau's Gazetteer city files, KLD STATS, period 1998–2009	Companies located in areas with high levels of CSR, major cities, and financial centers present higher CSR engagement and they can benefit from reduced equity financing costs
Huynh, T. D., & Xia, Y.	2020	Journal of Financial and Quantitative Analysis	Climate Change News Risk and Corporate Bond Returns	Bond transaction records from the Financial Industry Regulatory Authority's Trade Reporting and Compliance Engine (TRACE). The sample period goes from July 2002 to December 2016	A higher climate change news beta earns lower future returns, consistent with the asset pricing implications of demand for bonds with high potential to hedge against climate risk
Lee, M. T., & Raschke, R. L.	2023	Journal of Business Research	Stakeholder legitimacy in firm greening and financial performance: What about greenwashing temptations?	39 firms ESG reports from 3 sectors (automotive, technology, and food and beverage)	• The obtained ratio measures the relative (over-) emphasis of corporate actions • Positive ratios correspond to greenwashing • Firms with low ESG are more tempted to greenwash even though greenwashing is not related to financial performance
Mansouri, S., & Momtaz, P. P.	2022	Journal of Business Venturing	Financing sustainable entrepreneurship: ESG measurement, valuation, and performance	Sample of 103 Token Offerings Research Database in the period from 2016 to 2020.	Sustainable entrepreneurship generates higher valuations in entrepreneurial finance markets, so an increase in ESG metrics generates an increase in the funding amount
Menz, K.-M.	2010	Journal of Business Ethics	Corporate Social Responsibility: Is it Rewarded by the Corporate Bond Market? A Critical Note.	Sample of 498 bonds with observed values over 38 months between July 2004 and August 2007 (ESG Data Provider: SAM Group)	CSR has not yet been incorporated into the pricing of corporate bonds.
Ng, A. C., & Rezaee, Z.	2015	Journal of Corporate Finance	Business sustainability performance and cost of equity capital	Financial information and stock return of more than 3000 firms during 1990–2013 (KPL databases)	• Financial sustainability performance is negatively associated with the cost of equity • Non-financial sustainability performance is also negatively related to the cost of equity • Non-financial moderates the relation between financial sustainability and the cost of equity
Park, Y.-R., Song, S., Choe, S., & Baik, Y.	2015	Journal of Business Ethics	Corporate Social Responsibility in International Business: Illustrations from Korean and Japanese Electronics MNEs in Indonesia	Case studies of 4 electronic firms operating in Indonesia. Two of them are Korean (LG and Samsung) and two are Japanese (Panasonic and Sharp)	MNEs adopt different strategies to link their organizational methods with CSR initiatives for social issues in foreign countries' investments

Pástor, Ľ., Stambaugh, R. F., & Taylor, L. A.	2022	Journal of Financial Economics	Dissecting green returns	U.S. stock market data from November 2012 to December 2020	Green investments are usually the ones that refer to the environmentally friendly ones, whereas the brown ones are the opposite
Perez-Gonzalez, F., & Yun, H.	2013	Journal of Finance	Risk Management and Firm Value: Evidence from Weather Derivatives	203 US firms in the distribution and generation of electricity and natural gas, the observations are between 1960 and 2007. 25% of these firms use weather derivatives	Weather-sensitive firms are 2.4 times more likely to use weather derivatives than other firms
Rao, S., Koirala, S., Thapa, C., & Neupane, S.	2022	Journal of Corporate Finance	When rain matters! Investments and Value Relevance	Yearly observations of 5.639 non-financial firms listed on the Bombay Stock Exchange Ltd. (BSE) or the National Stock Exchange of India Ltd. (NSE) in the sample period 1951-2000	The main finding based on Indian monsoon data is that market-based valuations of rain-sensitive firms decline significantly in the immediate aftermath of extreme rainfall events
Saeed, A., Gull, A. A., Rind, A. A., Mubarik, M. S., & Shahbaz, M.	2020	International Journal of Finance & Economics	Do socially responsible firms demand high-quality audits? An international evidence	ASSET4, period 2002–2016	Companies with high CSR demand high-quality audits from external auditors
Stellner, C., Klein, C., & Zwergel, B.	2015	Journal of Banking & Finance	Corporate social responsibility and Eurozone corporate bonds: The moderating role of country sustainability	Sample of 872 corporate bonds issued by non-financial companies for the period 2006-2012 (ESG Data Provider: Thomson Reuters ASSET4)	Weak support for unconditional benefits of CSR investments in terms of z-spread; Greater CSP involvement is reducing companies' credit risk only in countries with high ESG performance
Sun, X., & Gunia, B. C.	2018	Journal of Corporate Finance	Economic resources and corporate social responsibility	2,936 firm-year observations on real estate shocks on CSR concerns	• Firms' CSR behaviors depend on their resources; increases in economic resources reduce CSR concerns and vice-versa. • Financial constraints, governance, political factors, and analyst coverage influence adjustments to CSR concerns. • Firms reduce CSR concerns after resource gains but increase CSR concerns more markedly after resource losses.
Tang, D. Y., & Zhang, Y.	2020	Journal of Corporate Finance	Do shareholders benefit from green bonds? In Journal of Corporate Finance (Vol	132 public firms in 28 countries which issued green bonds from 2007 to 2017. Data belong to Climate Bond Initiative (no profit international organization) and are combined with the Bloomberg dataset for cross-validating their accuracy.	• Green bonds can help to enlarge the investor base because the issuance can attract more media exposure and can be used by impact investors to satisfy their investment mandates • Green bond issuance contains more information about investment opportunities which reduces information asymmetry • green bond issuance attracts demands from investors with a green mandate, which lowers cost of capital for the firm.
Usman, M., Gull, A. A., Zalata, A. M., Wang, F., & Yin, J.	2021	British Journal of Management	Female Board Directorships and Related Party Transactions	China Stock Market and Accounting Research (CSMAR) database, period 2005-2018	Companies with female directors are less involved in RPTs, especially in the case of State Owned Companies
Vismara, S.	2019	Technological Forecasting and Social Change	Sustainability in equity crowdfunding	Sample of 345 initial equity offerings in United Kingdom platforms Crowdcube and Seedrs in the period 2014–2015	• Sustainability orientation does not increase the chances of success or engaging professionals • Sustainability orientation attracts a higher number of

					restricted investors • Whereas professionals follow a market logic, restricted investors consider also a community logic
Panel B: From corporate finance to capital markets					
Alok, S., Kumar, N., & Wermers, R.	2020	The Review of Financial Studies	Do Fund Managers Misestimate Climatic Disaster Risk	CRSP Survivor-Bias-free U.S. Mutual Fund database (actively managed, open-ended diversified U.S. equity mutual funds data) in the period 1995– 2016 (SHELDUS (climatic disasters data))	• Managers within a major disaster region underweight disaster zone stocks to a much greater degree than distant managers • The aversion to disaster zone stocks results from a salience bias decreasing over time and distance from the disaster, rather than the access to more relevant information by close managers • The overreaction can be costly to fund investors, especially for disasters such as hurricanes and tornadoes
Andersson, M., Bolton, P., & Samama, F.	2018	Financial Analysts Journal	Hedging Climate Risk	CDP (carbon-related data), Bloomberg and MSCI ESG in the period November 2014 - January 2016	• Propose investment strategy allowing long-term passive investors to hedge climate risk without sacrificing financial returns. • Develop a decarbonized index, that could be assimilated to “free option on carbon. • Under the BAU scenario, the low-carbon index obtains the same return as the benchmark index; but since CO2 emissions are priced, or expected to be priced, the low-carbon index should start to outperform the benchmark.
Brunen, A.-C., & Laubach, O.	2022	Journal of Banking & Finance	Do sustainable consumers prefer socially responsible investments? A study among the users of robo-advisors	Survey to 448 clients of three German robo advisors (Growney, VisualVest, and Vividam); the survey took place in June 2020.	Sustainable consumption translates into a higher likelihood of choosing a portfolio following a sustainable investment strategy among the clients of a digital wealth manager that offers both conventional and sustainable investments
Crifo, P., Forget, V. D., & Teyssier, S.	2015	Journal of Corporate Finance	The price of environmental, social and governance practice disclosure: An experiment with professional private equity investors	Framed field experiment on 33 investors resulting in 330 observations. Moreover, three fictive case studies were carefully built with professional private equity investors; each of the three case studies corresponds to a fictive firm that needs private equity financing.	• Irresponsible policies decrease firm price by 11%, 10% and 15% for E, S and G issues • Responsible policies increase firm price by 5%, 5.5% and 2% for E, S and G issues
El Ghoul, S., Guedhami, O., Kwok, C. C. Y., & Mishra, D. R.	2011	Journal of Banking & Finance	Does corporate social responsibility affect the cost of capital?	Sample of 12,915 observations representing 2809 unique firms between 1992 and 2007 (ESG Data Provider: KLD STATS)	Firms with better CSR scores exhibit cheaper equity financing
Engle, R. F., Giglio, S., Kelly, B., Lee, H., & Stroebel, J.	2020	The Review of Financial Studies	Hedging Climate Change News.	Wall Street Journal climate change news index in 1995- 2016; CrimsonHexagon (CH) Negative Climate Change News Index (1000 major news source)	• Mimicking portfolio approach can be successful in hedging innovations in climate change news • Portfolios based on Sustainalytics E-Scores have a higher ability to hedge innovations in climate news

Gibson Brandon, R., Krueger, P., & Schmidt, P. S.	2021	Financial Analysts Journal	ESG Rating Disagreement and Stock Returns	Constituents of the S&P index. ESG raters analysed: Asset4 , Sustainalytics, Inrate, Bloomberg, FTSE, KLD, and MSCI IVA	Stock returns are positively related to ESG rating disagreement
Goss, A., & Roberts, G. S.	2011	Journal of Banking & Finance	The impact of corporate social responsibility on the cost of bank loans	Sample of 3996 loans extended to 1265 firms over the period from 1991 to 2006 (ESG Data Provider: KLD Research)	Firms with social responsibility concerns pay between 7 and 18 basis points more than more responsible firms
Gutsche, G., & Ziegler, A.	2019	Journal of Banking & Finance	Which private investors are willing to pay for sustainable investments? Empirical evidence from stated choice experiments	Representative survey among private financial decision makers in Germany in 2014; the sample is composed of representative people (in terms of age, gender, and place of origin to the whole German population) since the data are taken from an online panel of a German market research institute (which is GfK SE). Overall, 1.001 respondents participated in the survey. The sample comprises two stated choice experiments respectively for fixed-interest investment products and equity funds	Investors with high feelings of warm glow from sustainable investments, an affinity to left-wing parties, and a strong environmental awareness have a higher mean willingness to sacrifice returns for sustainable investment products than their counterparts
Hartzmark, S. M., & Sussman, A. B.	2019	Journal of Finance	Do Investors Value Sustainability? A Natural Experiment Examining Ranking and Fund Flows	Sample of U.S. domiciled open-end funds with a sustainability rating from Morningstar (rating is done monthly), with TNA (fund size) above one million dollars.	Causal evidence that investors collectively value sustainability: funds with the highest globe ratings receive more than $24 billion greater fund flows, while those with the lowest globe ratings face a reduction in fund flows of more than $12 billion
Kiesel, F., & Lücke, F.	2019	Financial Markets, Institutions & Instruments	ESG in credit ratings and the impact on financial markets.	CRA and ESG data provider: Moody´s Sample: 483 companies and 3719 Moody's credit rating reports between 2004 and 2015	CRAs consider ESG factors in their rating decisions. However, the degree of integrating ESG is limited
Krueger, P., Sautner, Z., & Starks, L. T.	2020	The Review of Financial Studies	The Importance of Climate Risks for Institutional Investors	439 survey respondents, including 48 respondents from institutions with more than $100bn in assets under management	• Institutional investors believe that climate risks impact their portfolio firms namely through regulatory risk • Long-term, larger and ESG-oriented investors, consider a more appropriate approach for addressing climate risk: risk management and engagement, rather than divestment
Ng, A. C., & Rezaee, Z.	2015	Journal of Corporate Finance	Business sustainability performance and cost of equity capital.	Sample of 3,000 firms from 1991 to 2013 (ESG Data Provider: KLD (MSCI))	Financial sustainability performance is negatively associated with cost of equity
Pástor, Ľ., Stambaugh, R. F., & Taylor, L. A.	2022	Journal of Financial Economics	Dissecting green returns	Dataset from CRSP from 2012 to 2020 (ESG Data Provider: MSCI)	Green assets enjoy lower Implied cost of capital
Riedl, A., Smeets, P.	2017	Journal of Finance	Why Do Investors Hold Socially Responsible Mutual Funds?	Survey conducted in June 2011 in the Netherlands; 3.382 socially responsible investors and other 35.000 investors randomly selected from June 2006 to June 2012.	Investors are willing to forgo financial performance to invest by their morality and invest in a socially responsible manner
Rubtsov, A., Xu, W., Šević, A., & Šević, Ž.	2021	Technological Forecasting and Social Change	Price of climate risk hedging under uncertainty	S&P500 and MSCI–ESG World Leaders (monthly returns), Berkeley Earth (monthly temperature anomalies) in the period: 2009-2019	• Climate uncertainty reduces stock investment. • An increase in climate uncertainty decreases investors' welfare even when climate risk hedging instruments are available.

Semenova, N., & Hassel, L. G.	2014	Journal of Business Ethics	On the Validity of Environmental Performance Metrics	466 US MSCI World companies; for correlation analysis 113 companies from high-risk industries + 124 companies from low-risk industries for univariate tests (ESG data: MSCI ESG STATS, Thomson Reuters ASSET4, Global Engagement Services (GES))	Ratings have common dimensions, but in aggregate, they do not converge. For all the considered ESG data providers: environmental ratings of high-risk industries companies are significantly higher than those of low-risk industries companies.
Serafeim, G., & Yoon, A.	2022	Review of Accounting Studies	Stock price reactions to ESG news: the role of ESG ratings and disagreement.	Rating agencies: MSCI, Sustainalytics, and Thomson Reuters	The consensus among ESG rating predicts future ESG news, but this relationship is moderated by the extent of the disagreement between the three raters
Shackleton, M., Yan, J., & Yao, Y.	2022	Journal of Banking & Finance	What drives a firm's ES performance? Evidence from stock returns	33815 firm-year observations (referred to 4279 firms) between 1991-2015. 2284 ES proposals voted on a firm's annual general meeting (AGM) between 1997 - 2015	Poor stock market performance precedes enhanced ES performance is present (i) in firms with more financial slack, (ii) in firms with higher customer awareness, (iii) during the post-financial crisis period, and (iv) when a firm's shareholder activism on ES issues is intense
Sharfman, M. P., & Fernando, C. S.	2008	Strategic Management Journal	Environmental risk management and the cost of capital	Sample of 267 U.S. firms (ESG Data Provider: United States EPA TRI data and KLD)	Improved environmental risk management is associated with a lower cost of capital
Panel C: From capital markets to investors (ecosystemic perspective)					
Calvet, L., Gianfrate, G., & Uppal, R.	2022	Journal of Corporate Finance	The finance of climate change	Conceptual paper	Introductory paper about how global warming is the defining challenge of our times
Cunha, F. A. F. de S., Meira, E., & Orsato, R. J.	2021	Business Strategy and the Environment	Sustainable finance and investment: Review and research agenda	Systematic review of 166 articles	Despite the substantial academic output, the SFI literature still needs to address some critical issues, such as the under-theorization of the SFI concept, the persistence of the traditional short-term financial logic, and the lack of evidence on the impacts of SFI on society and the environment
Fernando, C. S., Sharfman, M. P., & Uysal, V. B.	2017	Journal of Financial and Quantitative Analysis	Corporate Environmental Policy and Shareholder Value: Following the Smart Money	7324 observations of 1449 distinct firms between 1997 and 2007. The firms are further divided into three categories: green and toxic and neutral	Green and Toxic companies have a greater number of shareholders than Neutral firms, but a smaller percentage of institutional investors
Fuest, C., & Meier, V.	2023	Journal of Environmental Economics and Management	Sustainable finance and climate change: Wasteful but a political commitment device? In Journal of Environmental Economics and Management (Vol	Green finance policies in political conflicts between Democrats and Republicans in the United States	If governments cannot bind future governments to their environmental policy decisions, a party with green preferences in power would be willing to sacrifice income through implementing a sustainable finance subsidy to induce a stricter environmental policy after a possible change in government
Grijalvo, M., & García-Wang, C.	2023	Journal of Business Research	Sustainable business model for climate finance	5 global banks with data from banks' annual reports, sustainability reports, and websites in 2017.	Importance of transitional business models going from traditionally focused on profits and shifting to ESG and sustainable goals

Ioannou, I., & Serafeim, G.	2014	Strategic Management Journal	The impact of corporate social responsibility on investment recommendations: Analysts' perceptions and shifting institutional logics	Recommendations of 1,012 equities analysts covering 3,065 corporations in 34 countries, between 2004 and 2011	CSR performance can be a valuable source of information for stock analysts, and the institutional logic that drives their judgments can shift over time.
Javadi, S., & Masum, A.-A.	2021	Journal of Corporate Finance	The impact of climate change on the cost of bank loans	32.999 loan facilities issued to 5.243 firms headquartered in 48 U.S. mainland states between 1986 and 2017	Climate change is viewed as a risk factor by lenders and is priced in the loan spreads they charge as well as in other non-pricing contractual features of their loans: the exposure of a firm's customer to climate risk adversely affects that firm's cost of borrowing
Kölbel, J. F., Heeb, F., Paetzold, F., & Busch, T.	2020	Organization & Environment	Can Sustainable Investing Save the World? Reviewing the Mechanisms of Investor Impact	Literature review	The impact of shareholder engagement is well supported in the literature, the impact of capital allocation only partially, and indirect impacts lack empirical support
Kumar, S., Sharma, D., Rao, S., Lim, W. M., & Mangla, S. K.	2022	Annals of Operations Research	Past, present, and future of sustainable finance: insights from big data analytics through machine learning of scholarly research	Literature Review	Suggestions for future sustainable finance research, which include developing and diffusing innovative sustainable financing instruments, magnifying and managing the profitability and returns of sustainable financing, making sustainable finance more sustainable, devising and unifying policies and frameworks for sustainable finance, tackling greenwashing of corporate sustainability reporting in sustainable finance, shining behavioral finance on sustainable finance, and leveraging the power of new-age technologies such as artificial intelligence, blockchain, internet of things, and machine learning for sustainable finance
Lee, C.-C., Li, X., Yu, C.-H., & Zhao, J.	2022	Energy Economics	The contribution of climate finance toward environmental sustainability: New global evidence	133 developing countries from 2000 to 2018	Climate finance significantly reduces the carbon dioxide emissions of recipient developing countries and thus improves environmental quality
Li, Q., Sharif, A., Razzaq, A., & Yu, Y.	2022	Technological Forecasting and Social Change	Do climate technology, financialization, and sustainable finance impede environmental challenges? Evidence from G10 economies	G10 countries	Climate technologies are imperative to handle environmental concerns in G10 countries; climate technologies and financial institutions' access lead to sustainable climate
Lin, B., & Ma, R.	2022	Journal of Environmental Management	How does digital finance influence green technology innovation in China? Evidence from the Financing Constraints Perspective	Panel data of 271 prefecture-level cities from 2011 to 2019 in China	Digital finance can improve the quantity and quality of green technological innovation in China: this effect is mainly due to the alleviation of financing constraints.
Nguyen, D. D., Ongena, S., Qi, S., & Sila, V.	2022	Review of Finance	Climate Change Risk and the Cost of Mortgage Credit	620.244 conventional 30-year mortgages originated in the USA between January 1992 and June 2018.	Banks when making mortgages pay attention to the exposition of the risk of sea level rise, which is treated as a long-term risk

Pucker K. P. & King A.	2022	Harvard Business Review	ESG Investing Isn’t Designed to Save the Planet	Conceptual paper	• ESG ratings do not evaluate the company’s impact on the environment and society, but rather the effect of the latter on the company. • Most ESG funds operate in secondary markets and thus have limited effects on real economy, concerning E and S. • ESG funds have yet to prove their superiority in terms of returns • ESG product creation and overselling are due to the related higher fees (ESG products are more costly) • Addressing climate change issues is very different from evaluating the effects of climate risk on companies’ profits
Qin, M., Su, C.-W., Zhong, Y., Song, Y., & Lobonț, O.-R.	2022	Journal of Environmental Management	Sustainable finance and renewable energy: Promoters of carbon neutrality in the United States	Monthly time series of 2012 to 2022	The facilitation of sustainable finance on U.S. carbon neutrality is more influential than that of renewable energy
Zerbib, O. D.	2019	Journal of Banking & Finance	The effect of pro-environmental preferences on bond prices: Evidence from green bonds	1065 green bonds indexed by Bloomberg on December 31, 2017	Investors’s pro-environmental preferences have a low impact on bond prices: pro-environmental preferences induce a negative yield premium of 2 bps on average
Zhang, D., Mohsin, M., & Taghizadeh-Hesary, F.	2022	Energy Economics	Does green finance counteract the climate change mitigation: Asymmetric effect of renewable energy investment and R&D	Data from G- 20 economies from 2008 to 2018	• CO_2 emissions would be reduced by green finance. • Promoting digital finance and the carbon trading market would foster sustainable development.