Research Article
Multicultural Integration of Urban International Communities in the Innovation Ecosystem

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Purpose. This article aims to bring the issue of multicultural integration of urban international community into the perspective of innovation ecosystem. Combined with theory, it probes into the relationship between multicultural integration and innovation ecosystem. The study, based on in-depth questionnaire and document analysis, examines the status quo of foreign residents’ participation in local social and cultural life from the measurement of identity, cultural differences, values, ideologies etc., and the obstacles encountered with the focus of spirit, material, and management. Design/Methodology/Approach. This study adopts the data sampling methods of purview sampling and snowball sampling to investigate cultural integration from two dimensions of sociocultural (behavioral) integration and psychological (emotional/affective) integration. The scale adopts the 4-point score of Likert formula and uses the mean coefficient (the average score of each item) to judge the difficulty of psychological integration of foreign residents. Findings. First, the social and cultural integration perceived by foreign residents is at a medium level. The conflicts of values, the differences of social and cultural systems, identity, and language ability are the main obstacles and difficulties in the multicultural integration of foreign residents. Second, at the psychological level, many foreign residents conducting the survey did not have too much psychological pressure, most of them could regulate their emotions by themselves, but the problem of psychological integration still exists; therefore, relevant effective intervention is needed. Third, foreign residents’ views on the social and cultural environment of their communities affect multicultural integration and stability of their communities. Practical Implications. This study helps understand the factors affecting multicultural integration in international community, which will be helpful for the researcher to understand more about the current issue of multicultural integration in international community and for the relevant department to adopt suitable policy and measurements to facilitate multicultural integration in international community.

1. Introduction

The issue of cultural integration in international communities is of great research value [1]. The diversity and complexity of the current social and cultural scenario make central the necessity of a new approach to investigate the urban international community. In this regard, several scholars [2, 3] highlight the importance of studying cultural diversity, cultural ethnic psychological stability, cultural conditionality and cultural integration, characterized by innovation concerning different fields, which are curial to the formation of a stable and harmonious ecological field of benign development among all cultural species.

When the international development of community is viewed as a dynamic process of community social change, which involves conflict and integration, intrusion, and succession, the research window is opened [4]. With the increase of the number of foreign residents in urban community, the structure of community members has changed. Understanding the natural and social composition of the complex population can lead to the understanding of the main group of the community [5], which is especially important in the research on the development of international communities. Based on this, we can find the common interests and common needs of community members and further study how to enhance their common consciousness,
so as to stimulate the interest and enthusiasm of community members to participate in community public affairs and activities, thus promoting community cultural integration [6]. The change of community member structure will increase the degree of community population differentiation, diversify the cultural differences of the faith, lifestyle and language etc., among individuals. Relatively speaking, the more the composition of community members tends to be internationalized, the more open the community will be correspondingly, but the community culture will be greatly alienated [7]. Therefore, to grasp the symbols of community members’ beliefs, values, norms of behavior, lifestyle, and language in the process of community cultural structure can help to find ways to promote community members’ identification and recognition.

Given this research presented, it is found that the research perspectives and methods of cultural integration do not break through the traditional qualitative studies on cultural conflicts, cultural regionalization, cultural integration, and spatial contrast and differences, few studies focus on the characteristics, modes, and mechanisms of cultural conflict and integration from the perspective of innovation ecology. As a result, questions of how the spatial integration and conflict of multicultures in international communities by using quantitative statistical analysis method have been relatively unexplored especially in the perspective of innovation ecosystem. In the innovative ecological environment, what is the status of cultural integration of foreign residents in urban international communities? What are the main problems and difficulties? What are the major factors that affect the cultural integration of foreign residents in international communities? Are foreign residents’ expectations of coming to China and social support network directly related to their cultural integration? Are foreign residents’ degree of community cultural identity and community participation proportional to the frequency of interaction? What role does community administration play in the cultural integration of foreign residents? All these problems need to be explored and studied.

Community development is a dynamic dimension, but the community has a relatively static dimension, such as community structure, properties, and characteristics of a particular entity which can be described by certain means. The analysis of the change of community static dimension can become a base to analyze the community dynamics, which must be obtained from the in-depth investigations on the community. The observation object and investigation method of community survey are based on the purpose of investigation analysis. Therefore, it is rational to investigate community development, such as community structure, properties, and characteristics of a particular entity in the community and characteristics of multicultural integration by exploring the relationship between community members’ social level and their way of life, between community management and space facilities provider, and the interaction between community cohesion and community residents, and between the management organizations and nongovernmental organizations in the community [8].

Therefore, the article attempts to analyze the connotation of multicultural integration of urban international community in innovation ecosystem and probe into the relationship between multicultural integration of international community and innovation ecosystem by investigating the process, mode, and degree of cultural integration of international community; then, it reveals the characteristics of the cultural integration of international communities and its interaction with the community and explores the status quo and influencing factors of the multicultural integration of residents in international communities by using quantitative analysis. Finally, through the analysis of the collision, communication, and two-way integration of geo-culture and heterogeneous culture in the construction of international community, the article examines the ways and the characteristics that foreign residents blend into mainstream society in everyday life and in social interactions as well as the obstacles they encounter in this process with the focus of spirit, material, and management.

2. Literature Review

Innovation ecosystem, as an important foundation for innovation and entrepreneurship in the era of global economic change, is gaining more and more attention from scholars and researchers. In general, the academic circles have mainly studied the innovation ecosystem from the following aspects.

2.1. A Research on the Concept, Connotation, and Structure of Innovation Ecosystem. The research on innovation ecosystem can be traced back to the business ecosystem proposed by McIlduff et al., which is considered as the basis of the research on innovation ecosystem [9], while Adner proposes the enterprise innovation ecosystem, furthering highlights the core position of innovation in enterprises [10]. Bulc defines innovation ecosystem as a system made for innovation creation in an open, natural manner, which enables a holistic understanding of needs, solutions, and consequences related to innovation processes and innovation itself, and is an interaction between people, enterprises, and institution [11]. Luoma-aho and Halonen argue that innovation ecosystem is a permanent or temporary system of interaction and exchange among the ecology of various actors that enable the cross-pollination of ideas and facilitate innovation [12]. Maillat-aho and Halonen discuss the relationship between technology innovation and social system, market environment, and sustainable development from the angle of ecological economy, laying the foundation of area innovation system’s coordinative evaluation [13]. According to Adner and Kapoor, innovation ecosystem is a mechanism which plays a synergistic integration of enterprise innovation results [14]; Luoma-aho et al. believe that innovation ecosystem is a lasting or temporary system based on ecological environment [15]. Iansiti and Levien argue that innovation ecosystem is a system composed of political subsystem, economic subsystem, environmental subsystem, technological subsystem, cross-organizational subsystem,
etc., which interact with each other to form a favorable innovation atmosphere and thus maintain sustainable growth [16]. They and other scholars also define the concept of innovation ecosystem from multiple perspectives [16, 17]. Asef et al. believe that the characteristics of innovation paths of high-tech enterprises are heredity and variation, which are consistent with the characteristics of biological species ecosystem [18]. According to Lengrand, the way to realize intensive interaction between R&D bases among enterprises is mainly through technology innovation ecosystem [19]. Chen Chou-yong et al., based on the perspective of knowledge and resource network, study the “driving factors” of innovation in enterprise technology and capability system [20]. Later on, researchers further propose the operation mechanism of the enterprise technology innovation ecosystem. Zhang Jing et al. believe that the knowledge innovation ecosystem should bring the social dynamics, social choices, and social constraints of knowledge innovation into the research horizon [21].

2.2. Research on Innovation Ecosystem as Interfirm Collaboration Environment. Adner and Kapoor proposed earlier that innovation ecosystem is a collaborative mechanism, which can be used by enterprises to create values that cannot be created by a single enterprise through multienterprise cooperation [14]. On this basis, Nambisan and Baron propose that the innovation ecosystem is an important environment for entrepreneurship, and core enterprises are the leaders of the innovation ecosystem [22]. Zahra and Nambisan regard the innovation platform established by core enterprises as an ecosystem providing soil for the creative activities of emerging enterprises, while the survival and development of emerging enterprises largely depend on their ability to provide services for platform leaders [23]. It is obvious that the role and function of core enterprises in the innovation ecosystem is the main focus of early research. Since 2014, research has shifted to explore the value creation and innovation and entrepreneurship environment of the entire innovation ecosystem. Romano views sustainable innovation ecosystems as dynamic and multiactor environments that foster innovative entrepreneurship. In this environment, the benign interaction of knowledge creation, diffusion, and absorption among stakeholders maintains the development of innovative entrepreneurship [24]. Autio and Thomas further point out that the innovation ecosystem is an organizational network formed around focal enterprises or platforms and develops new values of enterprises through collaborative innovation between producers and users [25]. Gawer and Cusumano directly regard the collaboration between internal platform and external industrial platform as an innovation ecosystem [26]. After some scholars proposed the innovation ecosystem based on the triple helix theory, Wu Xuechao draws from Carayannis et al.’s theory that the fractal innovation ecosystem is one of the core organization modes of “Mode 3 knowledge production,” and thus proposes the "quadruple spiral innovation ecosystem”; the “five-fold spiral” innovation ecosystem is further summarized thereafter [27]. The research in this stage not only focuses on the functions of core company but also focuses more on good interfirm ecology and system functions of innovation ecosystem. Users, government, and many stakeholders are all external factors that influence the innovation ecosystem, emphasizing the mutual association between enterprises to promote knowledge diffusion.

2.3. A Research on Innovation Ecosystem as an Innovative Business Environment. Jackson first regarded the innovation ecosystem as an innovative business environment and believed that it was the economic dynamic relationship formed by participants in innovation. Participants include physical resources, human capital, and institutional entities that constitute the ecosystem [28]. Based on his work, scholars study the innovation ecosystem as an innovative business environment from the perspectives of information, regional culture, and value co-creation. From the perspective of information, Luoma-aho defines the innovation ecosystem as the interaction and exchange between different subjects, as well as the migration and collision of ideas to promote innovation. The information flow becomes an intangible asset to maintain the vitality of the neogenesis system [12]. Shaw and Allen directly regard the innovation ecosystem as a channel of interconnected business models, in which several lines of information obtained from users are transmitted and recycled [29]. From the perspective of regional culture, Pichler believes that the evolution of innovation ecosystem is not only related to actors and their interactions but also related to the local regional competitiveness that provides technological starting points [30]. From the perspective of value co-creation, Russel et al. believe that value co-creation in innovation ecosystem is made through information and talent-oriented activity, and its characteristics and boundaries are determined by the political, capital, and intellectual environment [31]. Smorodinskaya et al. further argue that in the era of nonlinear innovation, innovation can be better cultivated in a special innovative environment, which is regarded as an innovation ecosystem of value co-creation through cooperation [32]. To sum up, innovation ecosystem as innovative business environment is a combination of various environmental factors, such as business environment, social environment, and policy environment, among which collaborative innovation usually involves those partners who are closely involved in innovation.

At present, much has been done on the research of innovation ecosystem, which provides useful reference and inspiration for the research ideas and the structure of this article—deficiencies also exist. First, the theory of innovative ecosystem is based on the theory of natural ecology. Most of the theoretical analysis of the existing literature is based on ecological metaphor, and the analysis of the connotation, characteristics, and evolution mechanism of innovative ecology is too theoretical and virtualized. Second, the existing research focuses on innovation ecosystem at the business and enterprise levels, but the research on innovation governance from the perspective of innovation
ecosystem is somewhat insufficient, and there is a lack of discussion on the participation of soft support such as policy, culture, and society in innovation governance, especially that on the innovation ecosystem of community cultural integration. Third, current research focuses mostly on the macro theoretical level and lacks empirical analysis and experiment combined with innovation practice. Therefore, it is necessary to carry out an empirical study of multicultural integration in the construction of community to investigate what the relationship between multicultural integration and innovation ecosystem is and understand how foreign residents view their identity to participate in local social and cultural life in an innovative ecosystem. And what cultural differences, values, and ideologies do foreign residents experience compared to local residents? In the process of cultural integration, what are the difficulties and psychological problems encountered by foreign residents? What are the factors that affect the cultural integration of foreign residents? Answering the questions will help to enrich the research methods and paradigms of cultural sociology so as to better understand the multicultural integration of urban communities.

3. The Relationship between Multicultural Integration in International Community and Innovation Ecosystem

As a new type of urban community, international community aims to build an innovation ecosystem with innovation elements as the core, integrating development innovation, experience application, and regional culture [33]. Specifically speaking, the development process of multicultural integration in international community is the process of enhancing its productivity and innovation ability. Through the cooperation of internal subjects, the value of a humanistic and living environment can be created to obtain productivity, which constantly adapts to the changes of external environment and gains profits from the environment to win the victory of social competition and obtain innovation ability; the productivity of innovation ecosystem reflects the development of value creation ability in international community, whose innovation ability reflects its key ability to cope with environmental changes and realize dynamic evolution [34]. Therefore, the cultural integration of international community is always consistent with the development goal of innovation ecosystem.

The multicultural integration of international community includes system, environment, value orientation, and other elements, while the formation of innovation ecosystem has gone through several stages from value concept identification to value creation to attract favorable elements and adapt to environmental changes. Both the multicultural integration in international community and innovation ecosystem promote regional economic growth through complementary cooperation and co-creation sharing to obtain sustainable development and regional competitive advantage. They both coincide in academic views and policy guidance. Therefore, the goal of multicultural integration of international community is to establish a healthy and sustainable innovation ecosystem.

As shown in Figure 1, in the innovation community, the producers are the management team of the community, and their work is to gather opinions of community construction together. Combined with the development status of the community, the producers establish and improve the community management system to provide better community services. The residents in the community are the consumers, they enjoy the services provided by the community and at the same time they need to pay related property management fees. Decomposers mainly include relevant government, enterprises, or intermediary service agencies who stand at the forefront of development or scholars who devote themselves to the research of community governance system. They will learn from the governance experience of other communities, integrate it with their own experience, and provide the community with all kinds of services. These practical experience and theoretical focuses will be shared out to improve the overall capacity of community governance.

The innovation relation in the community can be the new relationship among community residents, between community residents and community managers, or between community management and enterprises or government. To put it plainly, the innovation relation in the community is to combine all available resources and forces to create a community-centered development network.

4. Research Methodology

In order to further explore the multicultural integration in international community, a survey is conducted to reveal the economic, behavioral, cultural and conceptual adaptation of foreign immigrants in international community and explore the influence and characteristics of multicultural integration of immigrants from the perspective of geographical perception, social support system, community culture, identity, and other aspects within the scope of innovation ecology. It analyzes the dynamic changes, conflicts, and problems in the process of multicultural integration among different ethnic groups and explores the mechanism and rules of cultural integration in the construction of international community from the material, spiritual, and management dimensions. According to the current phenomenon and characteristics of multicultural integration in the construction of urban international community, the article finally puts forward some countermeasures to realize the multicultural integration on the basis of innovation ecology.

4.1. Research Methods. Based on the cultural integration model of Ward et al., this study takes foreign residents in international communities as the research objects and investigates the status of foreign residents’ participation in local social and cultural life by means of questionnaires and interviews from the measurement dimension of identity, cultural differences, values, ideologies etc [36]. Combined with case analysis, the research tries to understand the
multicultural integration of foreign residents in the innovative ecological environment and analyzes the problems and contradictions of foreign residents in the process of multicultural integration as well as the mechanisms and main influencing factors that cause the problems. Finally, relevant strategies are put forward to reduce the barriers of intercultural communication and promote the multicultural integration in the international communities.

4.2. The Venues and Objects of the Research. The research group chose the international residential communities in Shanghai, Hangzhou city, and Yiwu city in Zhejiang province as the research venues which include Gubei international community, Biyun international community, Lianyang international community, and Chunjiang international community in Shanghai; Wendingyuan international community, Binjiang Dongxin international community, LongQin international community of Development Zone in Hangzhou, and overseas Chinese students community of the universities in Hangzhou (Zhejiang University, China Jiliang University, Zhejiang University of Industry and Commerce, Zhejiang University of Electronic Technology, and Zhejiang University of Traditional Chinese Medicine); Jiming Mountain international community, Yiwu Institute of Industry and Commerce, and Yiwu Small Commodity City and Night Market in Yiwu city of Zhejiang province.

About 300 foreigners living in Shanghai, Hangzhou, and Yiwu (resident foreigners and family members, foreign staff, and international students) conducted the questionnaire, of which about 50 were interviewed. Because the questionnaire was conducted on spot, the recovery rate of the questionnaire is 100%. After sorting and data entry, 292 questionnaires were effective, and the effective rate of the questionnaire is 97.3%. The interview was recorded by mobile phone and has been converted into text message.

4.3. The Tool of Analysis. This study adopts Colleen Ward’s point of view to investigate cultural integration from two dimensions of sociocultural integration and psychological integration. The Social and Cultural Integration Survey used by the study is a revised version of the Social and Cultural Integration Scale (SCAS) designed by Colleen Ward and her colleagues. It has good reliability and validity, and the questions are flexible, which can be deleted and adjusted according to the purposes of the research [37]. The scale has been widely used in the evaluation of the degree of immigrant cultural integration, and it is also a relatively mature scale that has been verified many times. The research scale was in the form of a 5-point Likert scale, with five options for each item (“No difficulty” scores 1 point; “A little difficult” scores 2 points; “General” scores 3 points; “Difficult” scores 4 points; and “Very difficult” scores 5 points), the respondents evaluate the statements in the Table according to their actual situation. The higher the total score, the more difficult the social and cultural integration. In order to make the respondents understand the scale better, this scale is set up in Chinese, English, Korean, German, and Arabic to make it convenient for the respondents to fill in with the five versions.

In terms of the design of psychological integration scale, referring to the Self-rating Depression Scale (SDS) by Zung, some items of the scale were adjusted according to the theme of this study. This is simple to use, reliable, and valid, and it can reflect the subjective feelings of interviewees quite intuitively. The scale adopts the 4-point score of Likert type, “1∼4” respectively means “not/rarely so,” “sometimes so,” “often so,” and “always so.” The standard score of the scale ranges from 25 to 100 points, with higher scores indicating higher levels of depression. The mean coefficient (the average score of each item) is used to judge the difficulty of psychological integration of foreign residents. The higher the mean coefficient is, the more difficult the psychological integration is. According to the Chinese
Since the scale was designed by the user, then AMOS was used to test the reliability and validity of the scale, and the results are shown in Table 3. In this study, 50% data, 196 cases, were randomly selected for exploratory factor analysis and the rest were used for confirmatory factor analysis. The data were divided into high group and low group with 27% as the cutoff value, and the difference between them was calculated to obtain the decision value of the item. All CR values were used for confirmatory factor analysis. Note that the existence of certain correlation between variables is a prerequisite for factor analysis. In this study, 50% data, 196 cases, were randomly selected with SPSS system. As can be seen from Table 2, the significance probability value in Bartlett test of sphericity is 0.000. Meanwhile, the KMO value is 0.885. Both tests show that the data of this scale are suitable for factor analysis.

4.4. The Analysis and Test of the Scale. Since the scale was retranslated and revised, it is necessary to test the reliability and validity of it. In this study, half of the data were randomly selected for exploratory factor analysis and the rest were used for confirmatory factor analysis. The data were divided into high group and low group with 27% as the cutoff value, and the difference between them was calculated to obtain the decision value of the item. All CR values were greater than 3, reaching the significance level ($P < 0.001$), indicating that the item had strong discrimination ability. All questions are significantly correlated with the total score of the scale, and the correlation number is greater than 0.4 (Table 1), indicating that the questions had good homogeneity [38].

The existence of certain correlation between variables is the premise of factor analysis; in factor analysis, the correlation between variables is usually expressed by Bartlett test of sphericity and KMO (Kaiser-Meyer-Olkin) values. In the Bartlett test of sphericity, the KMO test is applied to test correlations and partial correlations between variables, with values ranging from 0 to 1. When the sum of squares of the simple correlation coefficients between all variables is much larger than the sum of squares of the partial correlation coefficients, the KMO value approaches 1. The smaller the KMO value is, the weaker the correlation between the observed variables is, and the less suitable the original variables are for factor analysis. Therefore, a significant level of Bartlett test of sphericity is a prerequisite for factor analysis. In this study, 50% data, 196 cases, were randomly selected with SPSS system. As can be seen from Table 2, the significance probability value in Bartlett test of sphericity is 0.000. Meanwhile, the KMO value is 0.885. Both tests show that the data of this scale are suitable for factor analysis.

In addition, reliability and validity analysis of the SDS was performed on 196 samples (randomly chosen) to check the internal consistency and structural validity of the scale. Reliability reflects the reliability or stability of the scale, which is represented by the consistency, reproducibility, and stability of test results. Validity is goal-oriented and reflects whether the scale is effective in measuring the desired goal (designed by the user), then AMOS was used to test the validity of the scale, and the results are shown in Table 3.

As shown from Table 3, the reliability of the SDS was 0.673. According to DeVellis [38], the $\alpha$ coefficient range between 0.65 and 0.70 is the acceptable value of reliability, 0.70–0.80 is quite good, 0.80–0.90 is very good, indicating that the SDS has reliability. Confirmatory factor analysis shows that $x^2/df < 3$, RMSEA < 0.08, other fitting indexes are close to 0.9, indicating that the SDS has satisfactory structural validity.

5. Findings and Discussions

5.1. Basic Information of Multicultural Integration in International Communities. The general information of multinational integration in international communities is shown as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>Correlated with total scores</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>a1</td>
<td>0.628**</td>
<td>12.385***</td>
</tr>
<tr>
<td>a2</td>
<td>0.472**</td>
<td>8.461***</td>
</tr>
<tr>
<td>a3</td>
<td>0.485**</td>
<td>8.490***</td>
</tr>
<tr>
<td>a4</td>
<td>0.596**</td>
<td>11.151***</td>
</tr>
<tr>
<td>a5</td>
<td>0.631**</td>
<td>12.665***</td>
</tr>
<tr>
<td>a6</td>
<td>0.554**</td>
<td>9.850***</td>
</tr>
<tr>
<td>a7</td>
<td>0.607**</td>
<td>10.621***</td>
</tr>
<tr>
<td>a8</td>
<td>0.498**</td>
<td>9.630***</td>
</tr>
<tr>
<td>a9</td>
<td>0.601**</td>
<td>10.587***</td>
</tr>
<tr>
<td>a10</td>
<td>0.576**</td>
<td>10.001***</td>
</tr>
</tbody>
</table>

Note: * means $P < 0.05$, ** means $P < 0.01$, and *** means $P < 0.001$, the same applies hereinafter.

| Table 1: Correlation and decision value between items of sociocultural integration scale and total score ($N = 292$).

<table>
<thead>
<tr>
<th>Item</th>
<th>Correlated with total scores</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>Correlated with total scores</td>
<td>CR</td>
</tr>
<tr>
<td>Item</td>
<td>Correlated with total scores</td>
<td>CR</td>
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<tr>
<td>Item</td>
<td>Correlated with total scores</td>
<td>CR</td>
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<tr>
<td>Item</td>
<td>Correlated with total scores</td>
<td>CR</td>
</tr>
<tr>
<td>Item</td>
<td>Correlated with total scores</td>
<td>CR</td>
</tr>
</tbody>
</table>

| Table 2: KMO and Bartlett test of multicultural integration.

<table>
<thead>
<tr>
<th>KMO and Bartlett test</th>
<th>The approximate chi-square</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaiser-Meyer-Olkin measure of sampling adequacy, KMO</td>
<td>489.615</td>
</tr>
<tr>
<td>Bartlett’s test of sphericity</td>
<td>105</td>
</tr>
<tr>
<td>Sig</td>
<td>0.000</td>
</tr>
</tbody>
</table>

| Table 3: The results of the reliability and validity analysis ($N = 196$).

<table>
<thead>
<tr>
<th>α value coefficient range</th>
<th>Question number</th>
<th>$x^2/df$</th>
<th>GFI</th>
<th>AGFI</th>
<th>FI</th>
<th>TLI</th>
<th>CFI</th>
<th>RMSEA</th>
</tr>
</thead>
<tbody>
<tr>
<td>The self-rating depression scale</td>
<td>0.673</td>
<td>20</td>
<td>2.910</td>
<td>0.925</td>
<td>0.901</td>
<td>0.914</td>
<td>0.887</td>
<td>0.931</td>
</tr>
</tbody>
</table>
The social and cultural integration perceived by foreign residents is at a medium level (M = 2.489). According to the results of the survey, 78.93% of foreign residents are faced with difficulties in community cultural integration, and most foreign residents choose “2 = somewhat difficult” to “3 = difficult.” As shown in Table 4, for foreign residents, the difficulty of community cultural integration is cultural value integration > institutional culture integration > spiritual consciousness integration > identity ownership integration > language competence > social communication ability > behavior and custom integration. It shows that the conflict of values, the difference of social and cultural systems, identity, and language ability are the main obstacles and difficulties for the cultural integration of foreign residents in international communities.

The data shown above in Table 5 reveal that most of the foreign residents in the international community who participated in the survey do not have too much psychological stress, most of them can manage their emotions, but about 24.33% of the respondents show symptoms of depression, including 71 residents with mild depression and 8 residents with moderate depression. This indicates that although the overall psychological integration of foreign residents is good, but the problem of psychological integration still exists; therefore, effective intervention is needed.

(1) Based on the research above, it is found that the integration of cultural value, institutional culture, and spiritual (including religion) are considered to be the three most difficult items. Although many foreign residents are interested in Chinese culture and even come to China for this reason, it is not easy to understand and identify with Chinese culture and the values of Chinese civilization. In addition, religious expatriates have strict requirements for food and etiquette, making it difficult for them to integrate into local society. Some of them states that even though they are able to adapt to local social cultural environment, even recognize the way of local interactions, but the degree they interact with the locals is very low, they only accept his or her home country culture and education since childhood, their culture and school education is Western, and they have different social interaction patterns, ways of thinking, including the cognition of human with Chinese. There is also a lack of understanding and rejection of certain Chinese constitutional systems. The whole cultural environment in China is based on Chinese cultural tradition and attaches great importance to relationship (guanxi). The way and habits of Chinese people are influenced by local geography, politics, culture, and social environment. It is difficult for the foreign residents to understand and identify with which they usually take the way of avoidance and retain their own original identity.

(2) Foreign residents usually feel confused about their identity and have a low degree of identification with their own community. There exist significant differences in daily living habits, daily life integration, and stress risk. Moreover, foreign residents with cross-cultural experience are more likely to continuously compare the differences of various cultures they have experienced in the past due to their past experience, which is easy to confuse different cultural fields in different cultural situations. It is difficult to adjust their mentality, leading to the difficulty in cultural integration. Chinese language ability has certain effects on foreign residents’ cultural fusion. Foreign residents who could communicate in Chinese fluently have better cultural integration than those who only understand simple Chinese. Language communication barriers caused by misunderstanding and estrangement do exist, but the impact is not obvious.

(3) The survey also reveal that some foreign residents had already taken part in “cross-cultural training” programs before coming to China, and had a psychological “expectation” of what they would face, knowing that they would face a completely different cultural environment and seeing it as an exciting “challenge and experience.” But most foreign residents find it difficult to live in a foreign country, and the difficulties vary. In other words, the cultural distance perceived by foreign residents is not the same. People have different lengths of time to

### Table 4: Basic information of social and cultural integration of foreign residents.

<table>
<thead>
<tr>
<th>Item</th>
<th>N</th>
<th>Min</th>
<th>Max</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integration of identity belonging</td>
<td>292</td>
<td>1.00</td>
<td>4.52</td>
<td>2.4904</td>
</tr>
<tr>
<td>Integration of culture value</td>
<td>292</td>
<td>1.00</td>
<td>5.00</td>
<td>2.5001</td>
</tr>
<tr>
<td>Integration of behavior and custom</td>
<td>292</td>
<td>1.00</td>
<td>4.23</td>
<td>2.3896</td>
</tr>
<tr>
<td>Integration of institutional culture</td>
<td>292</td>
<td>1.00</td>
<td>4.95</td>
<td>2.4982</td>
</tr>
<tr>
<td>Integration of spiritual consciousness (including religion)</td>
<td>292</td>
<td>1.00</td>
<td>4.86</td>
<td>2.4933</td>
</tr>
<tr>
<td>Language proficiencies</td>
<td>292</td>
<td>1.00</td>
<td>4.33</td>
<td>2.3925</td>
</tr>
<tr>
<td>Social communication ability</td>
<td>292</td>
<td>1.00</td>
<td>4.27</td>
<td>2.2987</td>
</tr>
</tbody>
</table>

### Table 5: Self-rating Depression Score (standard score) of foreign residents.

<table>
<thead>
<tr>
<th>Score</th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;51 (normal)</td>
<td>213</td>
<td>72.9</td>
</tr>
<tr>
<td>52~65 (mild depression)</td>
<td>71</td>
<td>24.3</td>
</tr>
<tr>
<td>66~75 (moderate depression)</td>
<td>8</td>
<td>0.03</td>
</tr>
<tr>
<td>≥76 (major depression)</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
assimilate and different degree to perceive cultural integration, some faster, some slower, even people from the same country. Therefore, whether the expectation of foreign residents in China is directly proportional to their cultural integration has not been verified.

(4) Making More Chinese friends will provide more social support, which is more conducive to the cultural integration of foreign residents. Depression levels also show that the more Chinese friends they have, the less foreign residents are affected by depression. These results suggest that social support can buffer or reduce the negative impact of alien culture on immigration, and also confirm that social support can play a moderating role in cultural integration. In addition, all respondents say they are actively integrating into the community, the local society, and learning about the local culture and customs.

The foreign residents’ views on the social and cultural environment of the community they live in will affect their cultural integration and the harmony and stability of the community. We randomly selected 50 foreign residents in the interview and asked them to evaluate the social and cultural environment of their communities from three aspects: material environment, cultural life, and spiritual life.

5.2.1. Cultural Integration at the Material Level.
Figures 2–4 above show that most foreigners are familiar with community facilities while about one-third of them know very little about it, almost half of them seldom use them. According to interviews, most international communities do not have enough public facilities, only with community square, chess and card room, activity room, school, hospital, gym, etc. Most public facilities foreigners know are always limited to those they cannot live without,
such as schools, hospitals or gyms, foreigners know them out of personal hobbies, or the community squares somewhere they pass by. Besides, there are some bilingual signs in the community, but it is far from enough for foreigners. Coupled with the sometimes-excessive enthusiasm and attention of local residents, most foreigners cannot adapt and often choose to reduce their use to avoid the embarrassment as much as possible.

Figure 5 shows that there are many ways for foreigners to learn about the community. “Occasionally heard” still accounts for the largest proportion, which means publicity media in the international community, covering from writing, bulletin board, broadcasting to Internet, is relatively complete while the radiation scope of publicity is still insufficient. Interviews show that quite a few foreigners are resistant to the written publicity like leaflets and manuals. They think this kind of publicity is not environmentally friendly, and the act of handing out leaflets in the street disturbs their daily life. In addition, many communities do not have bilingual broadcasts or websites due to the high cost, let alone WeChat account. In a word, the current international community has a relatively high degree of cultural integration at the material level, but there are still spaces to improve, like providing bilingual services, expanding the scope of publicity.

5.2.2. Cultural Integration at the Spiritual Level. Spiritual culture here refers to the psychological issue such as the sense of community identity and belonging. In order to explore the cultural integration at the spiritual level, two aspects of the sense of community belonging and the multicultural identity are conducted as follows:

This part of the research mainly starts from two aspects: interpersonal relationship and satisfaction.

Figures 6 and 7 indicate that foreign residents have the subjective desire to conduct cross-cultural communication with local residents. They like to make friends with local people, improve their language skills, and experience the fun of integrating into the local community. The survey shows that many foreign residents have “help each other” Chinese friends, offering them with help in work, life, and study, and participating in some activities with local friends. Through interaction with Chinese friends, foreign residents also
gradually gain an understanding of Chinese social norms, customs, and values. But some still turn to their compatriots when they need help (Figure 8). For foreign residents, their compatriots are a source of emotion and information, and a source of connection with their culture. Because their compatriots in a foreign country have the same pressures and feelings as them, they are more able to share experiences and provide emotional support and comfort. In questionnaire and interview, we further study the causes of this phenomenon and found that the language obstacle, life stress, cross-cultural communication skills, multicultural communication attitude, and willingness of the local residents as well as the difference between values and interpersonal mode are the important factors leading to the situation.

The data (Figure 9) display that 97% of foreigners are satisfied with community’s hardware environment and software services, it also reflects their willingness to live in the community for a long time (Figure 10). This illustrates that those foreign residents have developed a certain sense of community identity and are willing to tolerate and understand their community’s shortcomings and deficiencies. The interview also reveals that foreigners who are dissatisfied with the community are mainly college students living at school campus. However, the regulations such as being unable to leave dormitory at night and cannot have electrical appliances with excessive power or with potential safety hazards are beyond their acceptance.

Data show that more than three quarters of foreign residents are able to accept their multicultural identity, 4% are unable to accept the multicultural identity, and 19% are not clear about the definition of multicultural identity (Figure 11). To be honest, the definition of multicultural identity is abstract and subjective. It is difficult to quantify whether a person accept his or her cultural identity. Therefore, this actually does not explain the result of “How much foreigners embrace their multicultural identities.” Instead, the question is far beyond what have been found: foreigners’ attitudes to other culture and foreigners’ confidence and willingness to treat different cultures equally.

Of course, the data on cultural integration at the spiritual level have possibility to be embellished. The reason is that
from a psychological point of view, many people will sub-
consciously choose the answer that will not cause embar-
rassment in such situation, whether out of politeness or
respect. But this behavior is also a sign of cultural inte-
gration: foreigners are willing to consider things from other
party’s point of view. In the long run, it is likely for the
community to have a subtle influence on them.

5.2.3. Cultural Integration at the Management Level. The
data show that only a small number of foreigners often
contact community managers (Figure 12). According to the
interviews, some foreign residents are more concerned about
and focus on issues that are closely related to their own
interests. If not necessary, they do not want to contact
community managers, let alone participating in community
management. Some think that there are language barriers
and difficulties with the community managers, they would
rather seek the help of their friends who come from the same
country and have lived in the community longer. Another
essential reason is that very few internationalized commu-
nities in China have a complete governance system for
foreigners to participate in community management. As
shown in Figure 13, foreign residents are less involved in
community governance and management, only 1 of the
surveyed population has management experience. About
49% of the foreign residents surveyed said they were willing
to participate in community management but had no op-
portunity to do so. Therefore, it is also necessary for the
community to establish foreigners’ self-management
mechanism, a wide-covered community service system, and
cultural exchange platform to promote foreign residents’
understanding of community and increase the flow of
communication within the community which is crucial to
enhance foreign residents’ sense of community belonging
and identity to avoid conflicts and eventually promote
multicultural understanding and integration. It is a shame
that we failed to collect enough data to prove whether the
degree of community cultural identity and community
participation of foreign residents is proportional to the
frequency of interaction, which may be conducted in the
study thereafter.

5.3. Limitations. At present, the construction and devel-
opment of international communities in China is still in its
infancy, and problems and contradictions arising from the
coeexistence of diverse cultures in international residential
communities are emerging. However, there is lack of prior
research studies on the topic, few relevant academic ma-
terials were found to support this research, and practical
research on how to realize the multicultural integration in
international community needs to be further accumulated.
Cultural integration is a multidimensional and multifaceted
phenomenon, which needs further observation and research
on the personal and environmental levels, including internal
(interpersonal) and external (social environment) condi-
tions. Although enough sample data were collected to in-
vestigate the current situation, characteristics, and problems
of multicultural integration in international communities,
still the data in some aspects of the research were insufficient.
For example, there was not enough data to prove whether
the community cultural identity and the degree of foreign
residents’ participation were directly proportional to the
frequency of interaction, etc. further research will be con-
ducted to explore more deeply on the analysis of the diffi-
culties of cultural integration and the countermeasures of
how to achieve cultural integration. Multicultural integra-
tion is the core concept in an effective innovation ecosystem
in urban international communities. Therefore, it is nec-
essary for communities to highlight the core value of
multicultural integration and explore the problem com-
prehensively to analyze the degree of multicultural inte-
gression in urban communities from the perspective of
innovation ecosystem.

6. Conclusion

The development of urban international community is a
dynamic process of conflict, integration, invasion, and in-
heritance. In a certain region, culture itself is also a plu-
ralistic and diverse unity, a “cultural ecosystem.” Due to the
particularity and exclusivity of culture itself, in the process of
cross-cultural communication, foreign residents with dif-
ferent cultural backgrounds are faced with the transfor-
mation from their own national culture to another culture,
and they will inevitably experience different values and
lifestyles from their own national culture in the new and
unfamiliar environment. The cultural differences such as
belief, life style, and language among residents with diverse
cultural backgrounds in international communities make it
inevitable to have cultural conflicts among foreign residents.
The integration and conflict of diverse cultures, the collision
of values, the influence of social and cultural system dif-
f erences, identity, and language ability are all problems and
challenges faced by foreign residents.

As a gathering place of different ethnic groups in the
world, international community is a community of social life
whose members live in a certain geographical range, and its
cultural structure presents complex pluralism and hetero-
geney. Due to the different cultural backgrounds of Chi-
nese and foreign residents, there are certain differences in
ways of thinking, religious belief, value orientation, lifestyle,
customs, and community management system. Foreign
residents will inevitably collide with local culture in terms of
cultural concepts, and the common consciousness of the
community has not been fully formed. The sense of be-
longing and identity of foreign residents to the international
community still needs to be strengthened. Therefore, it is an
important task for the construction and development of
international communities to create a material environment
and social atmosphere that can enable foreign residents to
live and work in peace and contentment, which will enhance
the awareness of joint participation and mutual benefit of
Chinese and foreign residents, creating a harmonious
community atmosphere and improving the sense of com-
munity identity through mutual communication, coopera-
tion, and the exchange of ideas. It is necessary for the
community and relevant authorities to take some
measurements for the foreign residents to overcome the lack of geographical sense in the heterogeneous environment, as well as the difficulties in the formation of multicultural integration raised by the differences in the demand for community services, community cultural concepts, community governance models, etc. It is also very important for the community and relevant government department to enhance community’s satisfaction, sense of identity, and belonging and sense of responsibility to ultimately form an international community with orderly management, perfect service, the Chinese and foreign residents living in harmony, regional culture, and world culture well-blended by optimizing cultural exchange platform and encouraging the intensity of residents’ participation into community’s management.

**Data Availability**

The data used to support the findings of this study are included within the article.

**Conflicts of Interest**

The authors declare that they have no conflicts of interest.

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